SONY
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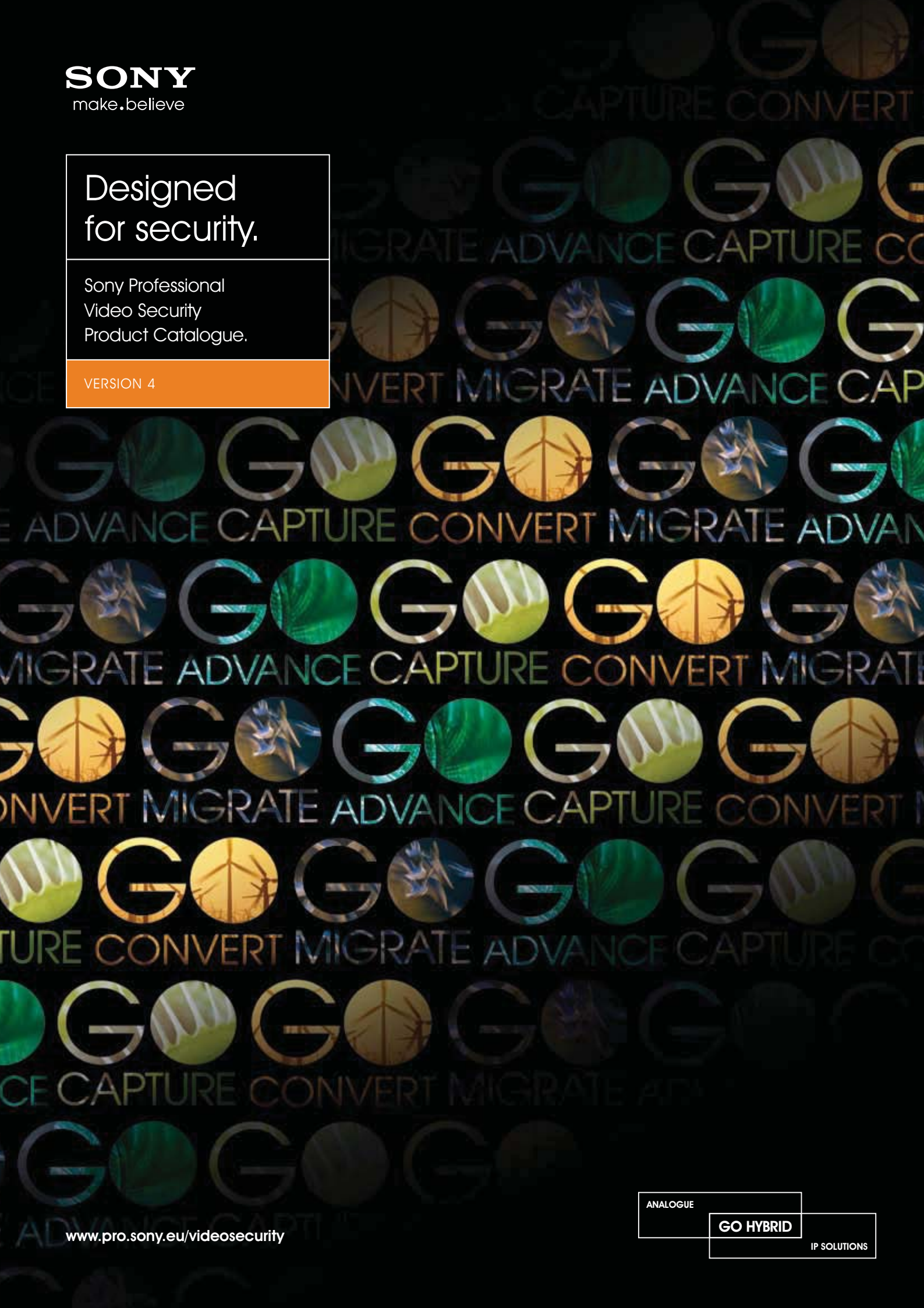
Designed for security.

Sony Professional Video Security Product Catalogue.

VERSION 4



www.pro.sony.eu/videosecurity

ANALOGUE
GO HYBRID
IP SOLUTIONS

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Time to GO Hybrid

Our new Go Hybrid technology integrates analogue and IP, HD and standard definition products and provides a host of benefits:

- **Go Migrate**
  Migrate from analogue to IP with hybrid recording solutions.
- **Go Advance**
  Advance your capabilities. Forward thinkers use the number one software choice.
- **Go Capture**
  You can capture everything with Sony Professional surveillance cameras.
- **Go Convert**
  Convert your video security network with intelligent encoder solutions.

The future of video security is here.

Sony Professional has long been recognised as one of the world's leading video security providers in both analogue and IP solutions. Today, we bring both together, with our leading HYBRID technology.

As the video security world moves from analogue to superior IP, more and more end-users are looking for a solution to help them migrate. Up to 70% of the current market still uses analogue cameras, but the undeniable advantages of higher resolution, greater intelligence and flexibility through ease of installation is a major pull. If it weren't for legacy costs invested in their analogue equipment, many would make the switch tomorrow, enjoying all the inherent IP advantages of reduced overheads, fewer false alarms, more efficient monitoring and clearer imagery.

Sony Professional's hybrid video security solutions allow your clients to make that migration to IP without throwing away analogue systems. And it works generically, providing seamless integration of old and new across Sony Professional's entire range and other manufacturers' products.

Innovation you can rely on

Sony Professional products and solutions are developed on our unique Distributed Enhanced Processing Architecture (DEPA™) platform, harnessing technological intelligence to overcome practical challenges.

Each product in our range – recorders, cameras, software, encoders and monitors – bring technological benefits designed to provide effective, reliable and intuitive video security.

In addition, Sony Professional IP cameras utilise our unique IPELA concept: using the power of IP to deliver enhanced reality, intelligence and usability. These values mean that each Sony Professional video security camera is designed to use the advantages of IP to overcome challenging conditions and deliver spectacular results, 24/7.

A vision we can share

With technology creating outstanding benefits in security operations, our vision for an integrated analogue/IP solution provides a clear strategy for your clients. Based on future-proofed products and innovative solutions, Sony Professional offers a simple entry into the world of IP and a route forward as security demands change. From banks, transportation, education and government/public venues to industrial and corporate, retail and tourism, Sony Professional has a solution that will enhance your clients' security – right now.

View-DR.

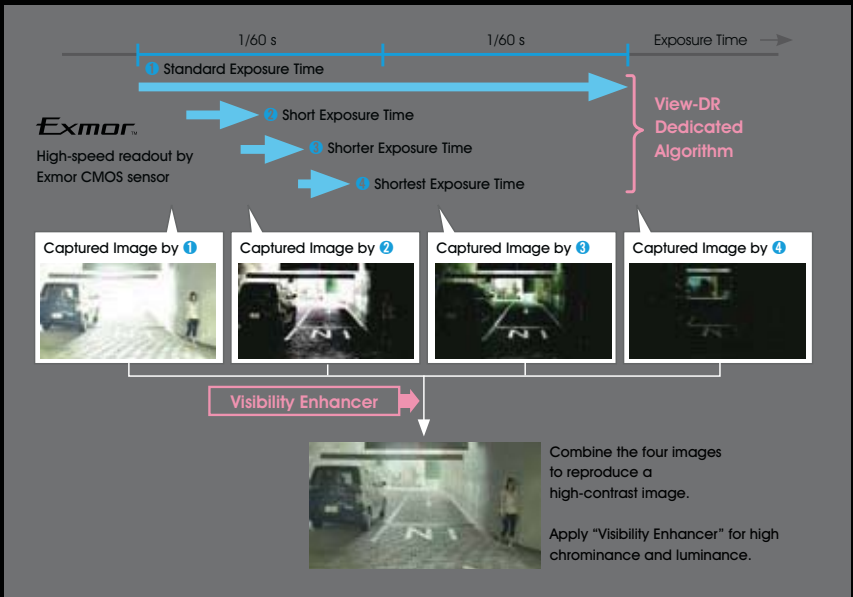
View-DR technology from Sony offers an extremely wide dynamic range.

View-DR is a combination of Sony's full-capture Wide-D technology, the high-speed 'Exmor' CMOS sensor and Visibility Enhancer (VE). The full-capture Wide-D technology captures images using a 'standard' exposure time and takes either one or three images using very short exposure times depending on the camera type. The newly developed View-DR algorithm nearly doubles the camera's sensitivity when compared to conventional Wide-D technologies.

To capture multiple HD resolution images at a very high speed, the 'Exmor' CMOS sensor utilises its high-speed readout characteristics. When combining multiple images, VE is employed to provide a high level of chrominance and luminance. With View-DR, monitored images become very visible; even more so than when viewed with the naked eye.

One image is taken using a standard exposure time and either one or three images are taken using very short exposure times, depending on the camera type.

(This illustration shows one standard exposure time and three very short exposure times.)

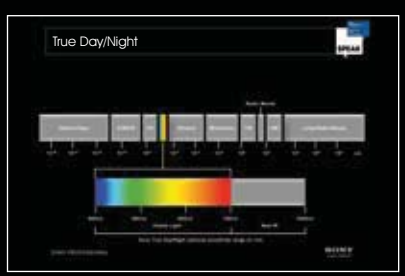


IR Illuminator.

Built-in Infrared (IR) Illuminator from Sony clearly captures objects in the dark up to 15m (49 feet) away with IR Illuminators, which allow the camera to operate in 0 lux lighting conditions.

Low visibility in dark scenes is one of the biggest challenges of HD/Megapixel camera for the industry. Because the visibility performance of an HD/Megapixel camera in dark scenes is worse than that of modern analogue camera, Sony has overcome or even outperformed this limitation by introducing cameras with embedded IR illuminators.

With embedded IR illuminator, you can enjoy clear visibility even under 0 lux, complete darkness. IR Illuminator has been designed to work seamlessly along side these technologies, True Day/Night, XDNR, Visibility Enhancer and View-DR and is able to capture clear pictures up to a distance of 15m.



The human eye can see between 400nm and 700nm, the Sony IR cameras are sensitive between 400nm and 1000nm.

IPELA – harnessing the power of IP.

IPELA is Sony Professional's vision of the ultimate workplace, revolutionising the way businesses communicate over global IP networks

Why IPELA?
As global broadband networks have rapidly expanded, businesses are now able to communicate in real-time, person-to-person, location-to-location. Now Sony Professional is driving the future of business communications with our IPELA series of visual communications products – preparing your customers for the future.

Our IPELA visual communication products deliver high-resolution images with naturally clear audio – at a quality that has never been previously achieved. Each new system introduced by Sony Professional, conforms to our three-pronged IPELA concept: reality, intelligence and usability.

Reality
Your clients can improve the efficiency of their security via high-quality video surveillance products. IPELA will enable them to get a clearer picture of crucial events and will cut-down false alarms and time spent searching through footage.

Intelligence
Our IPELA products incorporate technology such as visual recognition, intelligent detection methods, robust processing techniques and advanced search capabilities. They enhance the operator's surveillance and monitoring capabilities, allowing greater concentration on the business at hand.

Usability
With easy to use controls and intuitive graphical user interfaces, as well as the flexibility to meet individual user requirements, IPELA products minimise the learning curve – saving your clients time and money and improving results from day one.

DEPA – making intelligence work harder.

Sony Professional's Distributed Enhanced Processing Architecture (DEPA™) platform revolutionises surveillance monitoring for almost any application.

Taking surveillance to the next level
Our complete IP surveillance solution, Sony Professional's Distributed Enhanced Processing Architecture (DEPA™) platform, incorporates Intelligent video analytics to help your customers identify critical events. Unlike conventional monitoring solutions, DEPA systems provide enhanced intelligence to help surveillance operators take quick action and provide streamlined workflows.

Intelligent alarm triggers improved performance
With triggers designed to spot motion, DEPA-enabled surveillance equipment assists security staff in seeing crucial events in real-time.

The Intelligent Motion Detection and Intelligent Object Detection functions can be used alongside parameters set by the user. An alarm will be triggered when a virtual line is crossed or an object is moved from a specific location. This feature can also count how many objects enter a predetermined area, calculate an object's size, determine the direction in which something is moving, and gauge its speed. These movement filters can dramatically minimise false alarms and target real alarms, so improving surveillance efficiency.

The filters can also be used to quickly and effectively retrieve images, cutting down searching times. For example, virtual areas can be set to search for items that have been removed or stolen, or the system can immediately retrieve footage of a vehicle moving the wrong way along a one-way street.

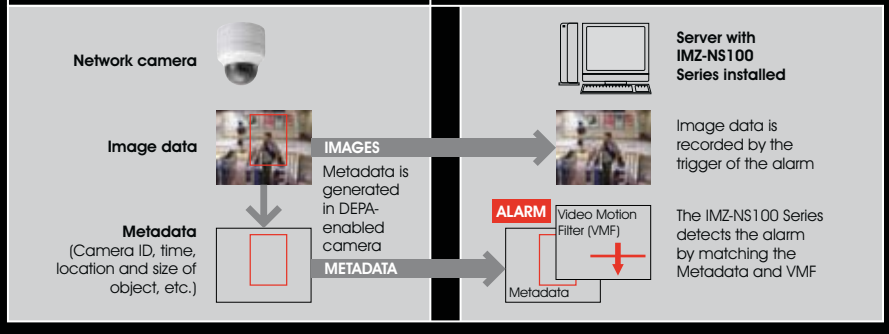
Intelligent processing enhances efficiency
Unlike units that use separate image processing and costly software, Sony Professional's DEPA design divides traditional processing into two tasks. Front-end processing is distributed to the endpoints of systems within cameras, while back-end processing takes place at the recorder.

Front-end processing:
- Distinguishes objects from environmental noise
- Detects moving and/or stationary objects
- Converts object information into metadata and then transfers it over the network separately from the digital video stream

Back-end processing:
- Receives and stores pre-processed object data from cameras
- Extracts objects which match the filtering conditions set in the recorder
- Displays information and creates an alarm response appropriate to specific conditions

Intelligent recording minimises storage and network resources
Users can also choose to stream and record only the events that cause concern when alarms are activated – therefore streamlining storage and conserving network resources. And because DEPA divides up the analytic tasks between cameras and recorders, the amount of video data transmitted from the camera is reduced. Together with the reduction in the storage capacity, this creates a far more stable and efficient system in comparison to conventional surveillance.

Concept of DEPA


Network camera
Image data
Metadata
(Camera ID, time, location and size of object, etc.)
IMAGES
Metadata is generated in DEPA-enabled camera
METADATA
Server with IMZ-NS100 Series installed
Image data is recorded by the trigger of the alarm
ALARM
Video Motion Filter (VMF)
Metadata
The IMZ-NS100 Series detects the alarm by matching the Metadata and VMF

Exwave PRO™ – enhanced image performance.

Image performance is now significantly enhanced with Sony Professional's innovative ExwavePRO™ technology, unique to our fourth generation IP cameras.

Minimising motion blur, enhancing clarity
Sony is a world-leader in the design and manufacture of CCD (charge-coupled device) and CMOS (complimentary metal-oxide semiconductor) imaging devices.

At the heart of our new ExwavePRO™ technology is an all-new CCD design – specifically developed to meet the requirements of security applications. Until now, CCD technology had only been used with interlaced scanning CCDs (typically designed for use in camcorders), to capture fast movement at a relatively high resolution.

For security applications, however, motion blur can be a problem, with the details of people or objects becoming difficult to make out on an interlaced image.

ExwavePRO™ CCDs use progressive scan technology – every frame of video is captured at full resolution with no interlacing. When trying to read the details of a number plate on a fast-moving car, progressive scan technology effectively doubles the vertical resolution of the image being analysed, giving clear, precise results.

High sensitivity for low-light conditions
In addition, our ExwavePRO™ also uses a new Complementary Colour Filter technology that results in approximately twice as much light reaching the CCD.

This produces a normal looking video output, but the higher luminance signal-to-noise ratio results in an image that can be twice as bright as one produced using a Primary Colour Filter – ideal for clear results in low light conditions.

ExwavePRO™ technology is a key feature of all of Sony Professional's fourth generation IP cameras. The introduction of this technology, alongside our equally innovative Light Funnel system, means our security cameras deliver a higher resolution imaging performance than ever before.

ExwavePRO in low-light conditions

Conventional camera in low-light conditions

Megapixel technology for true versatility.

From surveillance and wide area monitoring, to identification and response, Sony Professional Megapixel cameras will give your clients' security teams confidence in difficult conditions.

The ideal combination of resolution and storage

At 1.3 Megapixel resolution, our digital lenses provide the detail and image quality you need without creating prohibitive file sizes.

This resolution is ideal for clear identification of faces, detail on clothing, or vehicle registration plates. It also provides the depth of information you may need for analysis of events. At the same time, at 1.3 Megapixels, data is kept to a manageable size for efficient network transmission and storage.

Megapixel features

Our Megapixel surveillance range includes indoor and outdoor cameras to meet virtually any application.

Features include:

- enhanced zoom lenses
- viewing angles of over 100 degrees
- automatic day to night modes
- vandal-resistant housing
- patented ball-joint lens mount mechanisms

Sony Professional Megapixel cameras are being installed in corporate, retail, education, airport, stadium and public applications.

1.3 Megapixel resolution

VGA resolution

Light Funnel technology for increased sensitivity.

Our Light Funnel technology leads the way in 24/7 surveillance monitoring, enabling enhanced camera sensitivity in low-light conditions.

Designed for low-light
The Light Funnel function enhances camera sensitivity in low-light conditions. When applied, it combines two pixels horizontally and two pixels vertically to create up to 4x enhanced sensitivity. As a result, the sensor converts a greater amount of light energy into more electrons to produce a stronger electrical signal.

Conventional technologies often use slow shutter speeds to achieve higher sensitivity, which leads to blurring and reduced accuracy. Sony Light Funnel function retains crisp images even when used at night.

Automatic response
This function can be activated automatically in response to the light conditions, or on a pre-specified time schedule, allowing operators to monitor moving objects at dusk without manually changing settings.

This increased sensitivity with exceptional clarity lends itself to 24/7 exterior locations, from business perimeters, car parks and city streets to nightclub entrances, vandalism hot-spots and transport hubs.

DynaView™ technology delivers a wider range.

Incorporating the newly developed DynaView™ technology, Sony Professional surveillance cameras offer an extremely wide dynamic range allowing clearer images to be captured.

In comparison to the human eye, the dynamic range of a camera is very limited. The difference between the smallest and largest amount of light that can be transformed into a viewable video signal is relatively small – even in the highest-performing cameras – until the advent of Wide Dynamic Range.

Sony Professional's DynaView™ introduces Wide Dynamic Range to surveillance cameras, bringing the video security range closer to the capabilities of the human eye.

DynaView™ technology

DynaView™ improves a normal camera's dynamic range by over 128 times, which is perfect for security and surveillance applications where lighting conditions change over time. The technology uses an advanced Backlight Compensation function that reduces overexposure of the background image and so provides optimum exposure for both the background and the subject.

In DynaView™ mode, the image is captured twice: the dark areas of the shot are picked up with the normal shutter speed, and the brighter areas by a higher shutter speed.

Our special DSP LSI technology then combines the two images to create one extremely high contrast picture, which couldn't be obtained on a conventional camera.

For companies that need to monitor indoor areas with changing backlights – such as glass-fronted buildings – DynaView™ cameras will compensate for the difference between inside and out, enabling your clients to benefit from greater detail regardless of lighting conditions.

Dynamic Frame Integration – exceptional picture clarity.

When your customers need to catch moving objects or people on camera, our Dynamic Frame Integration technology can help them see clearer footage.

Reducing the blur
Dynamic Frame Integration (DFI) technology optimises the image acquisition for both stationary and moving image components at the same time. So when number plates need to be recorded or people need to be recognised, this technology can provide the best results.

The DFI technology detects movement within an image and reproduces those areas with minimal blurring.

At the same time, areas with little or no movement are displayed naturally with reduced jagged edges. This provides all the benefits of progressive scan, whilst taking advantage of improved sensitivity.

DFI, combined with the interlaced-scan CCD, can provide clearer images than ever before, even in low light conditions.

SNC-DF85/DF80/DF50 Camera Image

Conventional Camera Image

Image Comparison Between SNC-DF85/DF80/DF50 Camera and a Conventional Camera

Dual encoding – ideal for fixed and moving images.

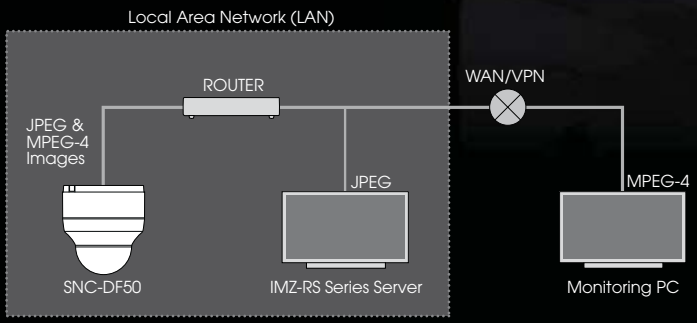
With dual-encoding capabilities, our surveillance solutions enable your clients to easily transfer images over the Internet and across networks, without compromising on resolution.

Transferring and storing images
Your clients can transfer and store surveillance images effectively with our dual-encoding technology. Designed for ease of use and to reduce file sizes, dual-encoding cameras support two compression formats: JPEG and MPEG-4.

The JPEG compression format is the industry standard for high-quality still images, while the MPEG-4 format provides clear moving images efficiently over networks with limited bandwidth.

Flexibility to suit your clients' needs
This dual encoding capability enables clients to create, transfer and store protocols to meet their precise needs.

As an example, a Sony Professional system can be set up to transfer MPEG-4 images over a WAN connection or an Internet VPN where network bandwidth is limited. And at the same time, it can store high-resolution JPEG images on a server configured to an organisations LAN.



Dual Image Encoding

H.264 – the latest industry standard… as standard.

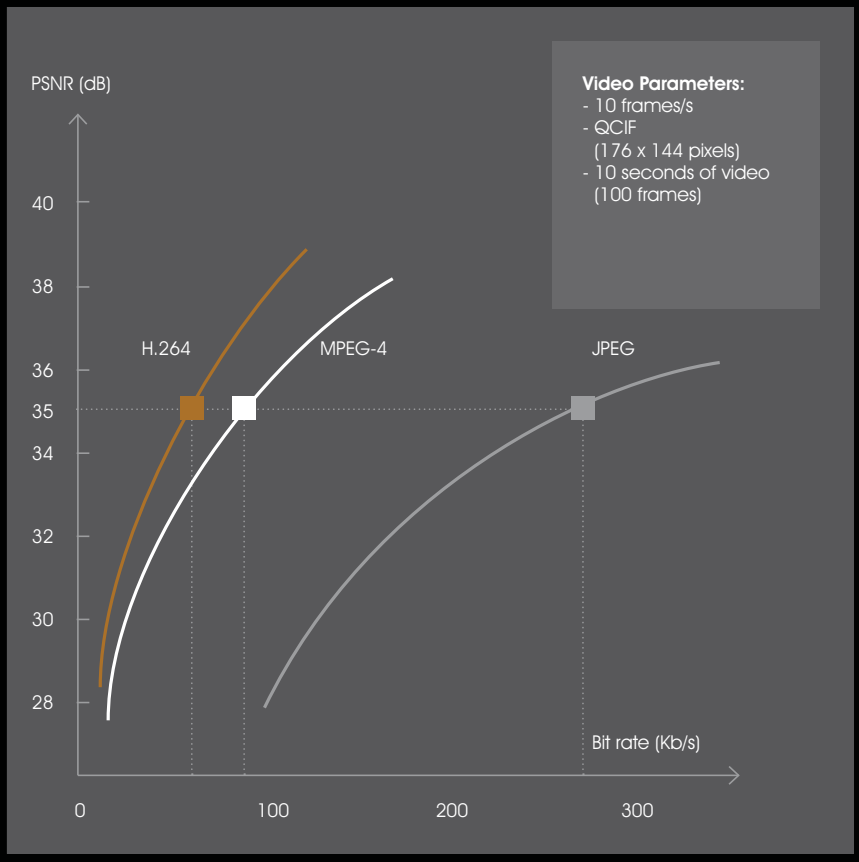
Sony Professional has adopted H.264 – the latest compression standard – in all of its latest network cameras, providing enhanced images with reduced bandwidth.

Better quality, reduced bandwidth
H.264 (MPEG-4 Part 10) was developed to provide high-quality video at a much lower bit rate than standard MPEG-4 or JPEG. As a result, H.264 compression represents a significant benefit to network security camera operations, offering enhanced images with reduced bandwidth.

Less bandwidth
For network security users, H.264 offers all sorts of practical benefits. Using network cameras designed to work with H.264, your clients will need less bandwidth. MPEG-4 requires approximately one-third of the bandwidth used by JPEG; H.264 requires just one-fifth. That's a 40% saving between standard MPEG-4 and H.264.

Reduced storage
With better compression, stored files take up much less room on servers, potentially saving significant sums in network storage requirements.

Improved quality
The data capture elements of each frame in H.264 focus on the movement areas, which has the benefit of creating far more accurate images with more detail. In security applications, this can make a real difference to the identification of facial features, for example, or a vehicle registration plate.



H.264 requires less bandwidth, while delivering better picture quality.

IMD Intelligent Motion Detection – driving actions directly from the camera.

Intelligent Motion Detection (IMD) enables your clients to set up automatic actions based on specific movement parameters.

Automatic prevention and storage capabilities
The built-in IMD function can trigger a variety of actions for prevention, monitoring and apprehending. For example, a particular motion pattern could trigger the activation of lights, alarms or other local devices through its output relays. Alternatively, it could prompt the storage and transfer of images for later analysis. False alarms caused by noise and repeated motion patterns are minimised thanks to an advanced Sony algorithm.

Enhanced performance with DEPA
When used in conjunction with Sony Professional's DEPA™- enabled recorders or software, a multitude of filter functions are available. These allow your clients to initiate alarms based on more specific movements, such as passing a virtual borderline.

IP66 – Vandal Resistant cameras for tough applications.

Many of our models feature Vandal Resistant versions specifically designed for outdoor use.

Meeting IP66 standard for dust and water ingress
Our outdoor cameras are designed to cope with tough conditions. Many of our newest models comply with IP66 standards for protection against water and dust, enabling your clients to enjoy reliable security, regardless of weather conditions or installations in dusty alleys, streets or loading bays.

Vandal Resistant too
Our outdoor cameras are built to the highest standards. Vandal Resistant cameras are housed in aluminium die-cast enclosures. Robust mini-dome cameras feature impact-resistant polycarbonate domes.

Analogue Video Output – for fast installation and set-up.

While Sony Professional IP Cameras bring many advantages to users, some installers prefer analogue set-up. That's why we've retained analogue video output options on all our cameras.

Set up options to suit you
When it comes to setting up viewing angles and focus adjustment, we know that many installers prefer to use their tried and tested analogue monitors.

With Sony Professional, even with the latest IP cameras, we've retained the Analogue Video Output option. You can choose to install using PC-driven software or analogue technology – whichever suits you and the specific application.

HD for your security cameras.

The security market continues to demand higher quality video images, in response to these demands Sony has introduced a range of High Definition (HD) CCTV solutions. Sony HD CCTV solutions represent the next generation in video surveillance technology.

From a surveillance solutions perspective, the transition to HD CCTV provides significant benefits. HD CCTV technology delivers real time capture and delivery of highly detailed images over a wide field of view, highly accurate object detection, recognition, recording and display allow for forensic levels of image analysis not found in existing technology.

Sony HD CCTV solutions combine the benefits of digital technology with the ease of use of analogue to provide the optimum in video security systems performance.

HD CCTV is based upon technology designed for use in high quality broadcast television applications. Video is captured using specialist High Definition CMOS sensors, the sensors contain a pixel array far greater than that found in standard definition CCTV sensors, this results in vastly superior image quality and a greatly enhanced field of view.

Additionally the CMOS sensors utilise a progressive scan system which eliminates the image flicker and blurring associated with interlace scanning systems normally found in standard definition CCTV technology. The resulting images can be transmitted via a suitable network in a variety of data formats. For maximum flexibility and optimum performance Sony HD CCTV solutions provides H.264, MPEG-4 and JPEG video compression formats.

Sony HD CCTV solutions deliver additional enhancements to image quality by utilising Sony's unique eXcellent Dynamic Noise Reduction (XDNR) and Visibility Enhancer (VE) technology.

XDNR provides clear images by drastically reducing the image noise and motion blur encountered under low light illumination. VE optimises scene visibility by improving wide dynamic ranges under conditions of high contrast illumination.

The superior image quality provided by Sony HD CCTV solutions delivers significant advantages when coupled with the powerful video analytics capability of Sony's Advanced Distributed Enhanced Processing Architecture (DEPA). DEPA technology offers advanced, intelligent alarm functionality whilst distributing and sharing image processing across the network. This powerful combination results in a reduced operator workload through vastly improved alarm handling, superior use of network resources and a security solution that's more flexible, scalable and economical.

Sony is the industry leader in the provision of HD CCTV technology, our portfolio provides for a full range of powerful HD CCTV solutions.

Camera's, SNT Encoder, NSR recording and RSM monitoring software solutions along with a comprehensive range of accessories combine to provide the complete HD CCTV systems solution package.

In addition, total flexibility through our Hybrid approach to seamless integration of new and existing video technology and maximum freedom of choice via our participation in the development of a global open standard for network video products via our Open Network Video Interface Forum (ONVIF) membership ensures that Sony HD solutions are the HD CCTV products of choice.

XDNR eXcellent Dynamic Noise Reduction (XDNR).

XDNR delivers superior noise and ghost free images under low light conditions.

The ability of a camera to deliver noise and ghost free images under low light conditions is fast becoming an essential requirement for IP CCTV imaging solutions.

The delivery of high quality images under low light conditions presents numerous technical challenges. Increased image noise levels resulting from signal amplification and image ghosting caused by slow shutter speeds are commonly encountered issues when using existing CCTV technology within a low light environment.

Recognising the importance of noise and ghost free images in low light, SONY has developed its unique eXcellent Dynamic Noise Reduction (XDNR) technology specifically for the IP CCTV environment.

XDNR utilises advanced 2DNR and 3DNR signal processing methods in order to remove random and fixed noise and image ghosting, eliminating the motion blur normally associated with the capture of moving images in low light. Delivering superior image quality in low light, SONY XDNR offers the optimum in noise reduction performance for IP CCTV solutions.

Sony HD SNC-RH PTZ cameras and SNT-EX/EP encoder solutions offer XDNR as a standard feature.

Using SNC–RH PTZ cameras combines the quality of high definition video with the superior noise and ghost free images offered by Sony's unique XDNR technology. By migrating to the Sony range of SNT-EX/EP encoders, XDNR performance can be added to any existing cameras and offers the perfect hybrid solution.

XDNR technology from Sony offers the optimum in low light imaging performance. Available from a range of products the technology is ideal for new or existing installations for superior image capture in low light conditions.

Distributed Enhanced Processing Architecture (DEPA) Advanced.

Building upon the success of DEPA, DEPA Advanced is an enhanced technology that offers high quality image analysis and detection.

Video surveillance has historically been dependent upon human intervention and control, the system operator often providing the interface between alarm activations and required actions. The inability of the operator to monitor and process multiple alarm events is often cited as the weak point in traditional surveillance systems.

The more recent introduction of intelligent video and alarm analysis has provided a reduction in operator workflow by the addition of pre-configured alarms, linked to pre-programmed actions. As a result of its processor intensive requirements video analysis can however be cost prohibitive for many systems, especially in the analogue environment.

Introduced in 2006 Sony's unique Distributed Enhanced Processing Architecture (DEPA) addresses this issue with an innovative design approach. SONY DEPA is an embedded technology providing pre-processing of image data within its camera technology and post of processing of image data within its recording and monitoring solutions. Alarm and image meta data generated by the camera is transmitted on demand to the recording solution where appropriate alarm actions may be initiated.

This distributed architecture allows for intelligent use of network bandwidth and reduces the bottlenecks associated with existing video analysis systems.

Operating a continuous product development policy SONY introduces DEPA Advanced technology. Building upon existing success, DEPA Advanced is an enhanced DEPA technology and now offers the highest quality image analysis and detection. SONY's embedded DEPA Advanced technology delivers unrivalled analytical performance within a range of imaging, recording and monitoring products.

Utilising SONY's unique Intelligent Motion Detection (IMD) to determine real or environmental movement and Intelligent Object Detection (IOD) to monitor the image for violation of a predetermined rule, DEPA Advanced provides highly accurate image meta data to the recording and monitoring solution for alarm activation and processing. A comprehensive range of enhanced predetermined alarm filters include, tamper alarm, virtual fence, trip wire, missing object, people counting and anti loiter options, audio analysis completes the range of advanced features on offer with DEPA advanced technology.

SONY offers a comprehensive range of embedded DEPA Advanced products from the Sony HD SNC-RH PTZ cameras and SNT-EX/EP encoders to NSR1000 recorders and RSM Advanced monitoring software solutions. A comprehensive range of accessories combine to provide the complete DEPA Advanced end to end solution.

Minimising false alarms whilst maximising operator workflow and bandwidth usage, SONY DEPA Advanced offers the optimum in cost effective, flexible and scalable video analysis solutions.

VE Visibility Enhancer (VE).

VE technology from Sony offers the optimum in wide dynamic range performance.

The ability of a camera to deliver optimised images under extreme lighting conditions is known as its wide dynamic range capability. Wide dynamic range is an essential feature when considering image capture under demanding lighting conditions.

Video surveillance technology has traditionally failed to deliver high quality images under the demanding conditions of high contrast scene illumination. Delivering wide dynamic range by resolving bright and dark areas of the image challenges traditional image processing technology.

Existing technology may be optimised for either bright or dark areas of the scene, but not simultaneously. The resulting effect is the reduced visibility of target objects.

In response to this problem Sony has developed its unique Visibility Enhancer (VE) technology. During image processing VE captures and dynamically monitors signal levels, reducing the extreme levels of brightness within the scene and increases levels within the darker areas. This simultaneous processing and adjustment of both light and dark areas of the scene delivers improved wide dynamic range performance with enhanced scene visibility and superior image quality.

Sony HD SNC-RH PTZ cameras and SNT-EX/EP encoder solutions offer VE as a standard feature. Using SNC–RH PTZ cameras combines the quality of high definition video with the wide dynamic range capability offered by Sony's unique VE technology. By migrating to the Sony range of SNT-EX/EP encoders, VE performance can be added to any existing cameras and offers the perfect hybrid solution.

VE technology from Sony offers the optimum in wide dynamic range performance. Available from a range of products the technology is ideal for new or existing installations for superior image capture in all lighting conditions.

Open Network Video Interface Forum (ONVIF).

In recognising cross-manufacturing compatibility as the key to widespread adoption of network video solutions, Sony along with a number of leading manufacturers have pioneered the establishment of ONVIF (Open Network Video Interface Forum).

The global standards for analogue video are long established and deliver full interconnectivity and interoperability between manufacturer's products. IP cameras and network video solutions do not however currently benefit from a global interoperability standard. As a result the exciting potential for the migration from traditional analogue systems to IP network video solutions is restricted.

The proliferation of IP network video solutions presents a unique set of challenges for both end users and system integrators alike. At a systems integration level the wide range of product on offer can often be limited in its application by the differing standards for image compression and network video transmission found from manufacturer to manufacturer.

This lack of a unified standard defines an obvious limiting factor in the global deployment of fully integrated network video solutions. As a result we restrict customer choice and are unable to fully realise the clear benefits on offer from the wide spread use of this technology.

In recognising cross manufacturing compatibility as the key to wide spread adoption of network video solutions, SONY along with a number of leading manufacturers have pioneered the establishment of ONVIF (Open Network Video Interface Forum). Established in 2008, ONVIF is a worldwide industry forum encompassing manufacturers, developers, consultants, systems integrators, and end users and is open to any group interested in furthering the goals of the organisation.

ONVIF is committed to promoting the adoption of network video solutions within the global security market. Focusing on system interoperability, the development of a worldwide open standard is the forums primary mission.

SONY through its commitment to adoption of the open standard introduces simplicity and ease of use to the integration of solutions delivered by multiple manufacturers. The SONY range of network video solutions offers compatibility with a wide range of manufacturing platforms making it even easier for end users, integrators, consultants and manufacturers to integrate with SONY products.

Using ONVIF-enabled SONY products unlocks freedom of customer choice and delivers the exciting opportunities available from integrating SONY's truly flexible and scalable network video solutions.

IPELA
IPELA

HD
SONY
HD
SONY

SNC-P1

Enter the world of IP monitoring with the Sony SNC-P1 MPEG-4/JPEG Network Camera.

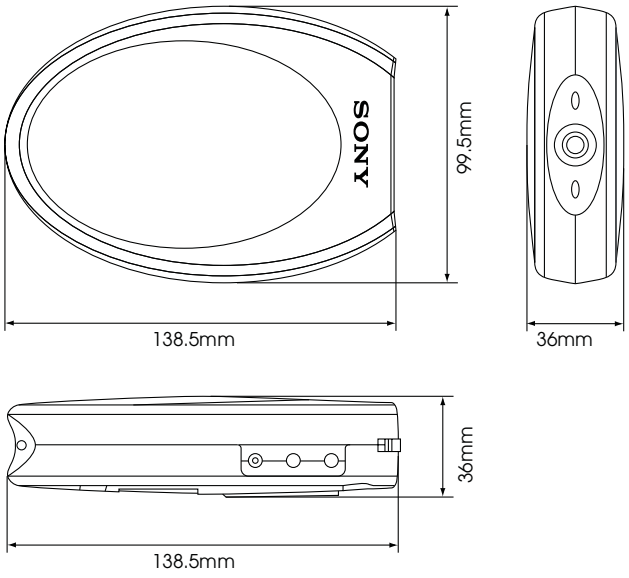
Key Features and Benefits

- **1/4-type progressive scan CCD.** Clear high performance images
- **Bi-directional audio with built-in microphone.** Transmits audio in both directions, in-built microphone transmits audio from remote site
- **In-built pre and post alarm image storage.** Allows internal storage of alarm images
- **Dual encoding.** Maximum flexibility when streaming video data

Standard Features and Benefits

- **Motion detection alarm trigger.** External alarm output from motion triggered alarms
- **JPEG and MPEG-4 compression formats.** Allows maximum flexibility for image transmission

Dimensions



Specifications

Camera	
Image device	1/4-type progressive scan CCD
Number of effective pixels (HxV)	330,000 (659 x 494)
Electronic shutter	Auto/Manual 1 to 1/10,000 Slow Shutter option On/Off
Auto gain control (AGC)	Auto/Manual
Exposure control	Auto/Shutter priority/ Manual
White balance modes	ATW/Indoor/Outdoor/One push auto/Manual
Lens type	Fixed
Horizontal viewing angle	Horizontal: 53.4°, Vertical: 40.0°
Focal length	f=3.8mm
F-number	F2.0
Minimum object distance	500mm
Image	
Image size (H x V) MPEG-4	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
Image size (H x V) JPEG	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
MPEG-4 frame rate	25fps (320x240), 15fps (640 x 480)
JPEG frame rate	25fps (320x240), 18fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps)/G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, UDP, RTP, RTCP, ARP, ICMP, HTTP, FTP, SMTP, DHCP, DNS, NTP and PPPoE, SNMP
Number of clients	10 (MPEG4), 20 (JPEG)
Interface	
Analogue connectivity	Mini-jack
Ethernet connectivity	100Base-TX/10Base-T (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 1
Audio connectivity	External Microphone Input: Mini-jack, Plug-in power, 2.2kΩ Unbalanced. Line Output: Mini-jack
Analogue video output	
Video system	PAL/NTSC
Horizontal resolution	400TVL
S/N ratio	48dB
Sensitivity colour	4.7lx (F2.0,50IRE)
General	
Weight	Approx. 225g
Dimensions (W x H x D)	99.5 x 36 x 138.5mm without projection
Power requirements	DC 12V
Power consumption	3.5W
Operating temperature	0 to +35°C (32 to 95°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core2 Duo, 2GHz or higher. RAM: 1GB or more. Microsoft Internet Explorer Ver. 5.5 or 6.0 or 7.0
Supplied Accessories	
	AC Adaptor (x1), CD-ROM (x1, Setup Program and User's Guide), Stand (x1)

SNC-CS10

Make the move from CCTV to IP-based monitoring with the affordable Sony SNC-CS10.

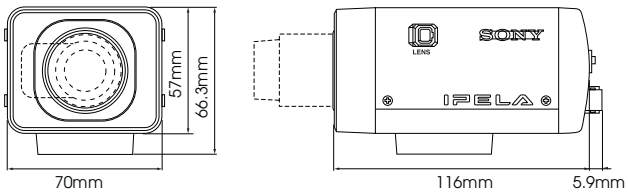
Key Features and Benefits

- **Analogue output.** Ideal for use when adjusting the camera viewing angle during installation
- **Dual encoding.** Maximum flexibility when streaming video data
- **Alarm function motion detection and pre/post alarm recording modes.** Ideal for interfacing to external alarm devices. Alarm image storage capability

Standard Features and Benefits

- **Sony progressive scan CCDs and advanced DSP technology.** Provides clear and detailed images while maintaining high sensitivity
- **DC Servo Auto Iris Lens capability.** Ideal for both outdoor and indoor use
- **Compact and slim design.** Fits 8-inch camera housings
- **Variety of power options AC 24V, DC 12V.**
- **Five preset JPEG picture quality settings with constant bitrate algorithm.** Limits data bitrate while maintaining high-quality images, ideal when network bandwidth is limited, useful for calculating storage capacity and the required bandwidth during installation
- **Privacy masking.** Ideal for masking sensitive areas of the video image

Dimensions



Specifications

Camera	
Image device	1/4-type Progressive Scan CCD
Number of effective pixels (HxV)	330,000 (659 x 494)
Electronic shutter	Auto/Manual Slow Shutter ON/OFF
Auto gain control (AGC)	Auto/Manual (-3dB to +28dB)
Exposure control	Auto Iris Lens/Manual Iris Lens
White balance modes	ATW/Tungsten bulb/Daylight/One-push auto/Manual
Lens mount	CS Mount
Image	
Image size (H x V) MPEG-4	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
Image size (H x V) JPEG	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
MPEG-4 frame rate	25fps (320x240), 15fps (640 x 480)
JPEG frame rate	25fps (320x240), 18fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps)/ G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, UDP, RTP, RTCP, ARP, ICMP, HTTP, FTP, SMTP, DHCP, DNS, NTP and PPPoE, SNMP (MIB2)
Number of clients	10 (MPEG4), 20 (JPEG)
Authentication	IEEE802.1X
Interface	
Analogue connectivity	Analogue video output BNC x1, 1.0Vp-p, 75Ω
Ethernet connectivity	10 Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in x 1, Alarm out x 1
Analogue video output	
Video system	NTSC/PAL (Composite)
Horizontal resolution	400 TV lines
S/N ratio	More than 48dB
Sensitivity colour	1.7lx (50IRE, F1.0, AGC ON)
General	
Weight	Approx. 480g
Dimensions (W x H x D)	70 x 57 x 116mm
Power requirements	AC 24V/DC 12V
Power consumption	5.7W max.
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core2 Duo, 2GHz or higher. RAM: 1GB or more. Microsoft Internet Explorer Ver. 5.5 or 6.0 or 7.0
Supplied Accessories	
	Screw, Wire Rope, CD-Rom (User's Guide, IP Setup Program, SNC Audio Upload Tool, SNC Video Player, Customer Homepage Installer), Installation Manual, Warranty Booklet, Warranty Sheet, AC Cable.

SNC-CS11

Make the move from CCTV to IP-based monitoring with the affordable Sony SNC-CS11.

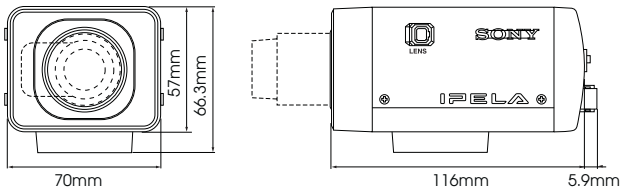
Key Features and Benefits

- **Analogue Video Output.** Ideal for use when adjusting the camera viewing angle during installation
- **Dual encoding.** Maximum flexibility when streaming video data
- **Alarm function.** Motion detection and pre/post alarm recording modes
- **Bi-directional audio function.** Allows remote transmission of audio in both directions

Standard Features and Benefits

- **Five preset JPEG picture-quality settings with constant bitrate algorithm.** Limits data bitrate while maintaining high-quality images, ideal when network bandwidth is limited, useful for calculating storage capacity and the required bandwidth during installation
- **Aspherical vari-focal lens.** Eliminates spherical aberration and minimises wide-angle distortion
- **Power over ethernet.** Allows remote transmission of power by utilising installed ethernet cable, thus reducing the amount of cable and associated costs on site

Dimensions



Specifications

Camera	
Image device	1/4-type Progressive Scan CCD
Number of effective pixels (HxV)	330,000 (659 x 494)
Electronic shutter	Auto/Manual, Slow shutter ON/OFF
Auto gain control (AGC)	(-3dB to +28dB)
Exposure control	Auto Iris Lens/Manual Iris Lens
White balance modes	ATW/Indoor/Outdoor/One-push auto/Manual
Lens type	Vari-focal zoom lens
Lens mount	CS Mount
Horizontal viewing angle	27° to 66°
Focal length	f=3.0 to 8.0mm (F1.0 to F1.4)
F-number	F1.0 (wide), F1.4 (tele)
Image	
Image size (H x V) MPEG-4	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
Image size (H x V) JPEG	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
MPEG-4 frame rate	25fps (320x240), 15fps (640 x 480)
JPEG frame rate	25fps (320x240), 18fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps)/ G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP(MIB2), DNS, NTP, RTP/RTCP, PPPoE
Number of clients	10 (MPEG4), 20 (JPEG)
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in x1, Alarm out x1
Audio connectivity	External microphone input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Audio line output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	NTSC/PAL
Horizontal resolution	400 TV lines
S/N ratio	More than 48dB
Sensitivity colour	1.7lx (50IRE, F1.0, AGC ON)
General	
Zoom ratio	x2.7 optical zoom
Weight	Approx. 525 g
Dimensions (W x H x D)	70 x 57 x 116mm
Power requirements	AC 24V/DC 12V/PoE
Power consumption	5.7W max.
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core2 Duo, 2GHz or higher. RAM: 1GB or more. Microsoft Internet Explorer Ver. 5.5 or 6.0 or 7.0
Supplied Accessories	
	CS-Mount Vari Focal Lens (SNC-CS11 only), Screw, Wire Rope, CD-Rom (User's Guide, IP Setup Program, SNC Audio Upload Tool, SNC Video Player, Customer Homepage Installer), Installation Manual, Warranty Booklet, Warranty Sheet, AC Cable.

SNC-CS20

Compact and slim surveillance network camera providing excellent sensitivity and high resolution with an advanced progressive scan CCD based on ExwavePRO™ technology.

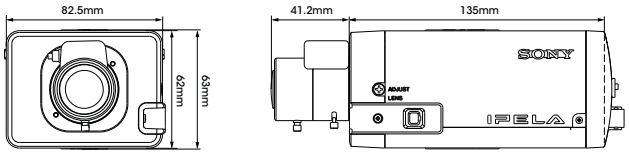
Key Features and Benefits

- **1/4-type Progressive Scan CCD with ExwavePRO™ technology.** The SNC-CS20 camera inherits the technical advantages of Sony ExwaveHAD™ technology, while incorporating advanced progressive scanning and complementary colour filters to provide extremely high sensitivity levels and clear and crisp images in both day and night environments
- **Dual encoding.** Maximum flexibility when streaming video data
- **Day/night function.** Ideal for mono switching in night mode
- **Bi-directional audio function.** Audio transmission available in both directions
- **Analogue Video Output.** Ideal for use when adjusting the camera viewing angle during installation

Standard Features and Benefits

- **Compact and slim design inherited from CCTV cameras.** Fits 8-inch camera housings
- **DC Servo IR Auto Iris Lens capability.** Ideal for both indoor and outdoor use
- **Slow shutter mode.** Ideal for low light conditions
- **Sensor in/alarm.** Camera will access alarm inputs and alarm outputs via external equipment
- **DEPA compatible.** Powerful video analytic and motion detection capability

Dimensions



Specifications

Camera	
Image device	1/4 type VGA CCD with ExwavePRO technology
Number of total pixels	350,000
Number of effective pixels (HxV)	330,000 (659 x 494)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (0db to +36dB)
Exposure control	Auto, BLC, Gamma correction
White balance modes	ATW, ATW-PRO
Lens type	Vari-focal lens
Horizontal viewing angle	66° to 27°
Focal length	f=3.0 to 8.0mm
F-number	F1.0 (wide), F1.45 (tele)
Minimum object distance	200mm
Image	
Image size (H x V) MPEG-4	640 x 480, 384 x 288, 320 x 240
Image size (H x V) JPEG	768 x 576, 640 x 480, 384 x 288, 320 x 240
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (768 x 576)
Audio	
Audio compression	G.711 /G. 726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP(client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP
Number of clients	10
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC xl, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1 Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	400 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.15lx (50IRE, F1.3, ACG 36dB)
Sensitivity monochrome	0.021lx (50IRE, F1.0, AGC ON 36dB)
General	
Zoom ratio	x2.7 optical zoom (x2 digital zoom)
Weight	Approx. 700g
Dimensions (W x H x D)	82.5 x 63 x 176.2mm including lens
Power requirements	AC 24V, DC 12V, PoE
Power consumption	8W max.
Operating temperature	-10 to 50°C
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows XP/Vista®
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core2 Duo, 2GHz or higher. RAM: 1GB or more
Supplied Accessories	
	CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer, Easy Setup Guide), Installation Manual, Wire Rope

SNC-CM120

Designed for security: the first-ever fixed Sony megapixel network camera delivers excellent sensitivity and 1.3 megapixel resolution with an advanced progressive scan CCD employing ExwavePRO™ technology.

Key Features and Benefits

1/3-type Progressive Scan CCD with ExwavePRO™ technology. High sensitivity levels and clear, crisp images in both day and night environments

1.3 Megapixel. High resolution images

Dual encoding. Maximum flexibility when streaming video data

Light funnel function. Unique function enables usable images at very low light

Solid PTZ. Electronic pan, tilt and zoom capability

Day/night function. Ideal for mechanical mono switching in night mode.

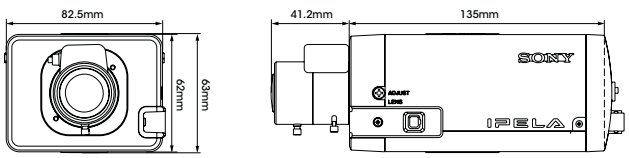
Analogue video output. Ideal for setting up of image during installation

Bi-directional audio function. Allows remote transmission of audio in both directions

Standard Features and Benefits

- **High frame rate.** Full frame rate available
- **Cropping function.** Enables flexible viewing for required images
- **DEPA compatible.** Can be used with advanced video analytics and intelligent VMD
- **Privacy masking.** Ideal for masking sensitive areas of the video image
- **Power over ethernet.** Allows remote transmission of power by utilising installed ethernet cable, thus reducing the amount of cable and associated costs on site

Dimensions



Specifications

Camera	
Image device	1/3-type Progressive Scan CCD with ExwavePRO Technology
Number of total pixels	1,320,000
Number of effective pixels (HxV)	1,250,000 (1,296 x 966)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	On/Off (0dB to +36dB)
Exposure control	Auto, Backlight compensation, Gamma settings
White balance modes	Modes ATW, ATW Pro
Lens type	Vari-focal zoom lens
Lens mount	CS Mount
Horizontal viewing angle	100.7 to 47°
Focal length	f=2.8 to 6.0mm
F-number	F1.3 (wide), F1.9 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 384 x 288, 320 x 240
Image size (H x V) JPEG	1280 x 960, 960 x 720, 768 x 576, 640 x 480, 384 x 288, 320 x 240
MPEG-4 frame rate	15fps (640 x 480 / Light Funnel OFF), 25fps (640 x 480 / Light Funnel ON)
JPEG frame rate	15fps (1280 x 960 / Light Funnel OFF), 25fps (640 x 480 / Light Funnel ON)
Audio	
Audio compression	G.711 (64kbps)/G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP, SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP
Number of clients	10
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100BASE-TX (RJ-45)
I/O port connectivity	Sensor in x 1, Alarm out x 2
Audio connectivity	External microphone input: Mini-jack x1 (Mic in: monaural, 2.2K 2.5VDC plug-in power, Line in: monaural) Line input
Analogue video output	
Video system	NTSC/PAL
Horizontal resolution	600 TV lines
S/N ratio	More than 50dB (AGC OFF, Weight ON)
Sensitivity colour	0.15lx (50IRE, F1.3, ACG 36dB). 0.1lx (Light Funnel ON, 50IRE, F1.3, AGC ON 36dB)
Sensitivity monochrome	0.01lx (50IRE, F1.3, AGC ON 30dB). 0.01lx (Light Funnel ON, 50IRE, F1.3, AGC ON 36dB)
General	
Zoom ratio	x2.1 optical zoom (x2 digital zoom)
Weight	700g (1lb 9oz)
Dimensions (W x H x D)	82.5 x 63 x 187.5mm including Lens
Power requirements	PoE (IEEE-802.3 af) AC 24V/DC 12V
Power consumption	8.0W
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Windows Vista®, Microsoft Windows XP
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core 2 Duo 2GHz or higher. Memory 1GB or more
Supplied Accessories	
	CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer, Easy Setup Guide), Installation Manual, Wire Rope

SNC-CS50P

The Sony SNC-CS50P network camera – an easy to operate, high-performance colour IP network camera that takes remote monitoring to the next level.

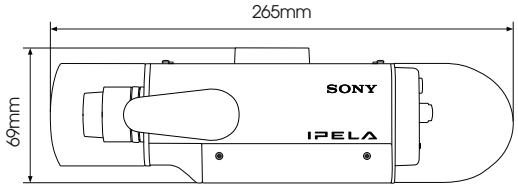
Key Features and Benefits

- **1/3-type SuperExwave™ CCD.** High resolution images with superior sensitivity
- **Day/night function.** Ideal for mechanical switching to monochrome in night conditions
- **JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- **Bi-directional audio function.** Audio may be transmitted in both directions
- **Analogue video output.** Ideal for setting up of image during installation
- **Multiple alarm functions.** Allows for intelligent motion detection, pre alarm recording and triggering via external devices
- **Dual encoding.** Maximum flexibility when streaming video data
- **Dynamic frame integration.** Reduces motion blur in high speed images

Standard Features and Benefits

- **Image stabiliser.** Reduces image shake in unstable camera mounting conditions
- **Vari-focal lens.** Allows flexible image viewing
- **Accessory expansion slot.** External image storage accessories available
- **Privacy masking.** Ideal for masking sensitive areas of the video image

Dimensions



Specifications

Camera	
Image device	1/3-type SuperExwave CCD
Number of effective pixels (HxV)	440,000
Electronic shutter	1/50 to 1 /10,000s
Auto gain control (AGC)	Auto/Manual (-3 to +24dB)
Exposure control	Auto/ Manual/ EV Compensation/ Backlight Compensation
White balance modes	ATW, ATW Pro, One-push
Lens type	Vari-focal Zoom Lens
Lens mount	CS Mount
Horizontal viewing angle	94° to 35°
Focal length	f=2.9 to 8.0mm
F-number	F0.95 (Wide) to FI.6 (Tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480 (VGA), 320 x 240 (QVGA), 160 x 120 (QQVGA), 704 x 576
Image size (H x V) JPEG	640 x 480 (VGA), 320 x 240 (QVGA), 160 x 120 (QQVGA), 704 x 576
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	16fps (640 x 480), 25fps (320 x 240)
Audio	
Audio compression	G.711 (64kbps)/ G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, DNS, NTP and SNMP (MIB-2), RTP/RTCP, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	Analogue video output BNC x1, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/1 00Base-TX (RJ45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-Jack (monaural, 2.2K, 2.5V plug-in power). Line Output: Mini-Jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	540 TV lines
S/N ratio	50dB or more
Sensitivity colour	0.4lx (F0.95, 50IRE, AGC ON)
Sensitivity monochrome	0.04lx (F0.95, 50IRE, AGC ON)
General	
Zoom ratio	x2.7 optical zoom
Weight	750 g excl. cover equipment, 880g incl.
Dimensions (W x H x D)	84 x 69 x 196mm excl. cover equipment, 84 x 69 x 265mm incl. cover equipment
Power requirements	AC 24V, DC 12V. PoE
Power consumption	9W max. (AC 24V)
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core2 Duo, 2GHz or higher. RAM: 1GB or more. Microsoft Internet Explorer Ver. 5.5 or 6.0 or 7.0
Supplied Accessories	
	CD-ROM (Setup Program and User's Guide), Wire Rope, Shoulder Screw M4, Cable Cover, Front Cover, Lens Cable Cover, Screw for Front Cover

SNC-CH140

Delivering HD resolution images in all lighting conditions and utilising state-of-the-art image enhancement with the View-DR wide dynamic range and XDNR noise reduction technologies, the SNC-CH140 from Sony represents the very latest in fixed, HD network camera technology.

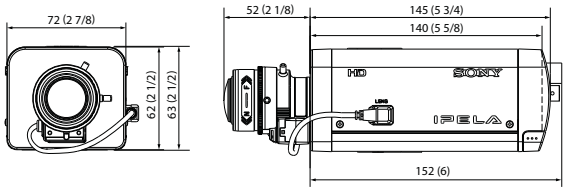
Key Features and Benefits

- **Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter.** Designed for security with superior HD image resolution in all lighting conditions
- **View-DR enhanced wide Dynamic range technology.** Superior performance in high contrast lighting conditions
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
- **Easy focus function.** Automatic adjustment of image focusing simplifies installation
- **Advanced audio detection.** Monitors and stores ambient audio levels to deliver highly accurate audio alarm triggering
- **Day/night function.** Ideal for mechanical switching to monochrome in night conditions
- **Dual encoding.** Maximum flexibility when streaming video data
- **Analogue video output.** Ideal for setting up of image during installation
- **Bi-directional audio function.** Audio may be transmitted in both directions
- **JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- **HD video at 30 fps.** Superior High Definition image quality with real time capture

Standard Features and Benefits

- **Triple codec support.** Delivers flexible image compression formats to overcome bandwidth limitations
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance
- **Onvif support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	1/3 type progressive scan CMOS
Minimum illumination	Day : 0.20 lx, Night : 0.10 lx (F1.2/View-DR OFF/XDNR ON-Middle/ VE OFF/AGC High/50 IRE[IP])
Number of effective pixels (HxV)	Approx. 1.4 Megapixel
Electronic shutter speed	1s to 1/10,000s
Auto gain control (AGC)	Max gain setting LOW, MID, HIGH
Exposure control	Auto, EV Compensation*1, Auto Slow Shutter*2
White balance modes	Auto (ATW, ATW-Pro), Preset, One-push WB, Manual
Lens type	CS Mount lens
Zoom ratio	Approx. 2.9X
Horizontal viewing angle	33.9 to 96.5°
Focal length	f=2.8 to 8.0mm
F-number	F1.2 (wide), F1.9 (tele)
Easy Focus	Yes
Easy Zoom	No
Camera Features	
Day/Night*3	Yes
Wide-D	View-DR*4 (125 dB)
Image enhancement	Visibility Enhancer
Noise reduction	XDNR
Image	
Codec image size (H x V)	1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 640 x 480, 640 x 368, 384 x 288, 320 x 240, 320 x 192
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H.264/MPEG-4/JPEG: 30 fps (1280 x 720)
Audio	
Audio compression	G.711/G.726
Scene analytics	
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Advanced audio detection	Yes*5
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Yes
Wireless network	Yes (with optional*6)
Number of clients	10
Authentication	IEEE802.1X
Interface	
Ethernet connectivity	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x1
Alarm output	x2
External microphone input	Mini-jack (monaural), MIC IN/LINE IN: 2.47VDC plug-in power
Audio line output	Mini-jack (monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	NTSC/PAL
Horizontal resolution	600 TV lines
S/N ratio	more than 50 dB
General	
Mass	Approx. 600 g (1 lb 2 oz)
Dimensions (W x H x D)	72 x 63 x 197 mm
Power requirements	PoE, AC24V, DC12V
Power consumption	9.0 W max.
Operating temperature	-10 to +50 °C*7 (-14 to 122 °F)
Storage temperature	-20 to +60 °C (-4 to 140 °F)
System requirements	
Operating system	Windows Vista®, Microsoft Windows XP
Processor	Intel Core2 Duo 2GHz or higher
Memory	1GB or more
Web browser	Microsoft Internet Explorer Ver6.0, Ver7.0
Supplied Accessories	
	CD-ROM (User's guides, SNC Toolbox), Installation manual, Wire rope, Warranty booklet

*1 Visibility Enhancer off mode only *2 View-DR off mode only *3 Removable IR Cut Filter
*4 View-DR technology is a combination of Sony's full-capture Wide-D technology, the high-speed "Exmor" CMOS sensor, and Visibility Enhancer. *5 Available with software version 1.1 or later *6 With optional SNCA-CFW5 *7 Cold start temperature must be greater than 0°C.

SNC-CH180

IP66-rated Network HD Bullet Camera with wide dynamic range with built-in infrared (IR) illuminators. This camera delivers quality images even in absolute darkness (0 lx), so is ideal for most demanding surveillance applications.

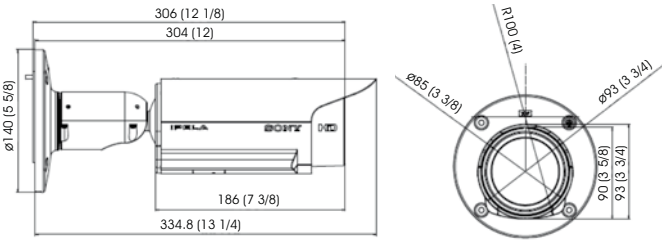
Key Features and Benefits

- **IR Illuminator.** Clearly captures objects in the dark up to 15m (49 feet) away with IR illuminators, which allows the camera to operate in 0 lux lighting conditions
- **Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter.** Designed for security with superior HD image resolution in all lighting conditions
- **View-DR enhanced wide Dynamic range technology.** Superior performance in high contrast lighting conditions
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
- **Easy focus function.** Automatic adjustment of image focusing simplifies installation
- **Easy zoom function.** Adjusts the focus relative to the zoom ratio

Standard Features and Benefits

- **Triple codec support.** Delivers flexible image compression formats to overcome bandwidth limitations
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance
- **ONVIF support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products
- **IP66 Rated.** Maximum environmental protection for heavy duty outdoor monitoring applications

Dimensions



Specifications

Camera	
Image device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	TBD
Number of effective pixels (HxV)	1.4 Megapixel (1329 x 1049)
Electronic shutter	1s to 1/10000s
Auto gain control (AGC)	Auto (3 levels)
Exposure control	Auto, EV Compensation *1, Auto Slow Shutter *2
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Vari-focal lens
Horizontal viewing angle	85.4 to 31.2 degrees
Focal length	f=3.1 to 8.9mm
F-number	F1.2 (Wide), F2.1 (Tele)

Specifications (continued)

Camera (continued)	
Minimum object distance	300 mm
Powered Focus	Yes (Easy Focus)
Powered Zoom	Yes (Easy Zoom)
IR illuminators	Yes (Wave Length: 850nm (Typical), IR LED: 27pcs)
Camera Features	
Day/Night *3	Yes
Wide-D	View-DR (125dB: Theoretical)
Image enhancement	Visibility Enhancer
Noise reduction	XDNR
Image	
Codec image size (H x V)	1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 368, 384 x 288, 320 x 240, 320 x 192 (H.264, MPEG-4, JPEG)
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	H.264: 20fps (1280 x 1024) / 30 fps (1280 x 720) MPEG-4: 25fps (1280 x 1024) / 30 fps (1280 x 720) JPEG: 30fps (1280 x 1024) / 30 fps (1280 x 720)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Rule filter	Yes
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
Number of clients	10
ONVIF conformance	Yes
Wireless network	Yes (with Option *4)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card slots	CF card x1
Analogue video output	BNC x 1, RCA x 1
Sensor input	x 1
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	NTSC / PAL
Horizontal resolution	600 TV lines
S/N ratio	More than 50dB
General	
Zoom ratio	Optical 2.9X (x2 Digital Zoom)
Weight	1600 g (3 lb 8 oz)
Dimensions (W x H x D)	85 x 90 x 186 mm (3 3/8 x 3 5/8 x 7 3/8 inches) 140 x 140 x 334.8 mm (5 5/8 x 5 5/8 x 13 1/4 inches) (including arm)
Power requirements	PoE *5, AC24V, DC12V
Power consumption	TBD
Operating temperature	AC24V/DC12V: -30 to +50 °C (-22 to +122°F) (Tentative) PoE (IEEE802.3af): -10 to +50 °C (23 to 122°F) (Tentative)
Starting temperature	AC24V/DC12V: -20 to +50 °C (-4 to +122°F) (Tentative) PoE (IEEE802.3af): 0 to 50 °C (32 to 122°F) (Tentative)
Storage temperature	-20 to +60 °C (-4 to +140°F)
Ingress protection	IP66
System requirements	
Operating system	Windows XP, Windows Vista, Windows 7
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
Web browser	Microsoft Internet Explorer Ver6.0, 7.0, or 8.0
Supplied Accessories	
	CD-ROM (User's Guide, SNC Toolbox), Installation manual, Wire rope, M4 screw, B&P Warranty Booklet, Template

*1 VE off mode only. *2 View-DR off mode only. *3 Removable IR Cut Filter. *4 With optional SNCA-CFW5. *5 When used with PoE, SNC-CH180 cannot be used with a heater and a CF card slot. The SNC-CH180 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

SNC-CH240

Full-HD Network Camera delivering excellent picture quality in 1080p HD resolution at 30 frames per second. Utilising state-of-the-art image enhancement with View-DR, XDNR and the "Exmor" CMOS sensor.

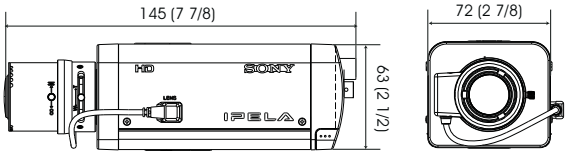
Key Features and Benefits

- **Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter.** Designed for security with superior HD image resolution in all lighting conditions
- **View-DR enhanced wide Dynamic range technology.** Superior performance in high contrast lighting conditions
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
- **Easy focus function.** Automatic adjustment of image focusing simplifies installation
- **Easy zoom function.** Adjusts the focus relative to the zoom ratio

Standard Features and Benefits

- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance
- **ONVIF support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



(Tentative)

Specifications

Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	TBD
Number of effective pixels (HxV)	3 Megapixel (2096 × 1561) (Tentative)
Electronic shutter	1s to 1/10000s
Auto gain control (AGC)	Auto (3 levels)
Exposure control	Auto, EV Compensation *1, Auto Slow Shutter *2
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	CS mount lens

Specifications (continued)

Camera (continued)	
Horizontal viewing angle	101.2 to 47.0 degrees
Focal length	f=2.8 to 6.0 mm
F-number	F1.3 (Wide), F1.9 (Tele)
Minimum object distance	300 mm
Powered Focus	Yes (Easy Focus)
Powered Zoom	No
Camera Features	
Day/Night *3	Yes
Wide-D	View-DR (84dB: Theoretical) (Tentative)
Image enhancement	Visibility Enhancer
Noise reduction	XDNR
Image	
Codec image size (H x V)	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080, 1440 x 912, 1376 x 768, 1280 x 960, 1280 x 800, 1280 x 720, 1280 x 1024, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640x 368, 384 x 288, 320 x 240, 320 x 192 (H.264, MPEG-4, JPEG)
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	H264: 20fps (1920 x 1440) / 30fps (1920 x 1080) MPEG-4: 15fps (1920 x 1440) / 25 fps (1920 x 1080) JPEG: 10fps (1920 x 1440) / 15fps (1920 x 1080)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Rule filter	Yes
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
Number of clients	10
ONVIF conformance	Yes
Wireless network	Yes (with option *4)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card slots	CF card x1
Analogue video output	BNC x 1
Sensor input	x 1
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Video system	NTSC / PAL
Horizontal resolution	TBD
S/N ratio	More than 50 dB
General	
Zoom ratio	Optical 2.1X (x2 Digital Zoom)
Weight	650g (1 lb 7 oz) (Tentative)
Dimensions (W x H x D)	72 x 63 x 145 mm (2 7/8 x 2 1/2 x 7 7/8 inches) (Tentative)
Power requirements	PoE, AC24V, DC12V
Power consumption	TBD
Operating temperature *5	-10 to +50 °C (14 to 122 °F) (Tentative)
Storage temperature	-20 to +60 °C (-4 to +140 °F)
Vandal resistant standard	No / Yes
System requirements	
Operating system	Windows XP, Windows Vista, Windows 7
Processor	Intel Core2 Duo 2GHz or higher
Memory	1GB or more
Web browser	Microsoft Internet Explorer Ver6.0, 7.0, or 8.0

DEPA Advanced

ONVIF

SNC-CH210

The unique compact affordable SNC-CH210 Network HD Camera supporting H.264, MPEG-4 and JPEG compression formats, delivers excellent and detailed pictures in HD resolution.

Key Features and Benefits

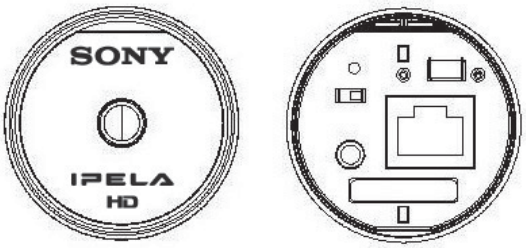
Innovative Design. Compact, slim and two body colours (Silver and Black); suitable for many applications where the bulky camera would be avoided

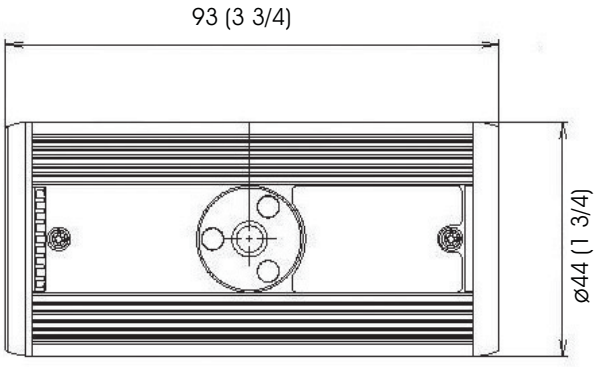
"Stream Squared" function. Allows simultaneous streaming of two 4:3 aspect ratio videos in user selectable SD resolutions. You can select the entire image or a portion of the image from the original field of view and resize to SD resolution or lower for each stream

Standard Features and Benefits

- **Triple codec support.** Delivers flexible image compression formats to overcome bandwidth limitations
- **ONVIF support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions





Specifications

Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	TBD
Number of effective pixels (HxV)	3 Megapixel (2096 x 1561)
Electronic shutter	1s to 1/10000s
Auto gain control (AGC)	Auto
Exposure control	Auto Slow Shutter
White balance modes	Auto, Preset, One-push WB, Manual
Lens type	Fixed
Horizontal viewing angle	Approx. 90 degree (TBD)
Focal length	f=3.3 mm
F-number	F2.8
Minimum object distance	TBD
Camera Features	
Day/Night	Yes (electrical D/N)
Image	
Codec image size (H x V)	2048x1536 (JPEG Only), 1920x1080, 1600x1200, 1680x1050, 1440x900, 1280x1024, 1280x960, 1366x768, 1280x800, 1280x720, 1024x768, 1024x576, 768x576, 720x576, 704x576, 800x480, 720x480, 640x480, 640x360, 384x288, 320x240, 320x180 (H.264, MPEG-4, JPEG)
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	H.264: 12fps (1920×1080) (TBD) / 30 fps (1280 x 720) MPEG-4: 15fps (1920×1080) (TBD) / 30 fps (1280 x 720) JPEG: 7fps (2048×1536) (TBD) / 30 fps (1280 x 720)
Scene Analytics	
Motion detection	Yes (TBD)
Tamper alarm	Yes (TBD)
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Yes
Number of clients	5 (TBD)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card slots	No
Analogue video output	Mini Jack
Sensor input	x 1
Analogue video output	
Signal system	NTSC / PAL
Horizontal resolution	TBD
S/N ratio	TBD
General	
Weight	TBD
Dimensions (ø x H)	44 x 93 mm (1 3/4 x 3 3/4 inches)
Power requirements	PoE
Power consumption	TBD
Operating temperature	0 to 50 °C (32 to 122°F)
Storage temperature	-20 to +60 °C (-4 to +140 °F)
System Requirements	
	Operating system Windows XP, Windows Vista, Windows 7 Processor Intel Core2 Duo 2 GHz or higher Memory 1 GB or more Web browser Microsoft Internet Explorer Ver6.0, 7.0, or 8.0

The SNC-CH210 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

ONVIF

SNC-DS10

New network mini-dome cameras with ExwavePRO™ technology – for clear, detailed, and amazingly sharp images.

Key Features and Benefits

1/4-type Progressive Scan CCD with ExwavePRO™ technology. High resolution images with superior sensitivity

Dual encoding. Maximum flexibility when streaming video data

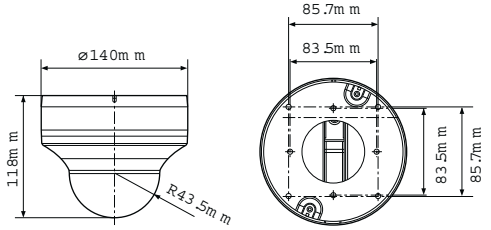
Bi-directional audio with voice alert. Audio may be transmitted in both directions. Voice preset can store pre-recorded warning messages

Analogue video output. Ideal for assisting in image set-up during installation

Standard Features and Benefits

- **Quick focus function.** Ideal for quick set up of image focus during installation
- **Privacy masking.** Ideal for masking sensitive areas of the video image
- **Flexible mounting options.** May be mounted in ceiling or wall applications
- **DEPA compatible.** Allows access to powerful video analytics and intelligent motion detection and alarm functions

Dimensions



Specifications

Camera	
Image device	1/4-type Progressive Scan CCD with ExwavePRO Technology
Number of total pixels	Approx. 350,000
Number of effective pixels (HxV)	Approx. 330,000 (659 x 494)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (0dB to +36dB)
Exposure control	Auto, Backlight compensation, Gamma settings
White balance modes	ATW, ATW Pro
Lens type	Vari-focal lens
Lens mount	Ball-Joint Lens Mount
Horizontal viewing angle	73° to 20°
Focal length	f=2.8 to 10.0mm
F-number	F 1.3 (wide), F 3.0 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 384 x 288, 320 x 240
Image size (H x V) JPEG	768 x 576, 640 x 480, 384 x 288, 320 x 240
MPEG-4 frame rate	30fps (640 x 480)
JPEG frame rate	30fps (768 x 576)
Audio	
Audio compression	G.711 /G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, UDP, RTSP
Number of clients	10
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC xl, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5VDC plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	400TVL
S/N ratio	More than 50dB
Sensitivity colour	0.15lx (50IRE, F1.3 AGC 36dB)
General	
Zoom ratio	x3.6 optical zoom
Weight	Approx. 780g
Dimensions (W x H x D)	Approx. 140 x 118mm
Power requirements	AC 24V, DC 12V, PoE
Power consumption	7.5W max
Operating temperature	-0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 2.4GHz or higher, Intel Core2 Duo, 1.8GHz or higher. RAM: 1GB or more
Supplied Accessories	
	CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual, Bracket, Template, M4 screws (2), Wire Rope, M4 Shoulder Screw, Audio Cable, I/O Cable, LAN Cable, BNC Cable

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org) This product includes cryptographic software written by Eric Young (eay@crytposoft.com)

SNC-DM110

New network mini-dome cameras with ExwavePRO™ technology and resolution up to 1.3 megapixels - for clear, detailed, and amazingly bright surveillance monitoring images.

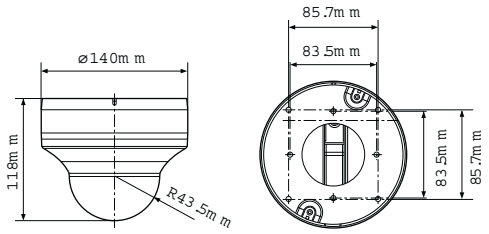
Key Features and Benefits

- **Progressive Scan CCD With ExwavePRO™ technology.** High sensitivity for crisp clear images
- **Megapixel.** High quality 1.3 megapixel image
- **Light Funnel Function.** Unique function offers usable images in extremely low light
- **Dual encoding.** Maximum flexibility when streaming video data
- **Analogue video output.** Ideal for assisting set-up during installation
- **Solid PTZ.** Electronic pan, tilt, zoom facility with flexible image cropping function may be linked to intelligent VMD
- IMD **Intelligent Motion Detection.** Highly flexible VMD may be linked to DEPA enabled s/w

Standard Features and Benefits

- **Quick focus function.** Ideal for high speed focus of camera image during installation
- **Flexible mounting options.** Can be ceiling or wall mounted
- **Privacy zone masking.** Flexible privacy masking of images

Dimensions



Specifications

Camera	
Image device	1/3-type Progressive Scan CCD with ExwavePRO Technology
Number of total pixels	Approx. 1,320,000
Number of effective pixels (HxV)	Approx. 1,250,000 (1296 x 966) Approx. 330,000 (659 x 494)
Electronic shutter	1 to 1/10,000 s
Auto gain control (AGC)	On/Off (0dB to +36dB)
Exposure control	Auto, Backlight compensation, Gamma settings
White balance modes	ATW, ATW Pro
Lens type	Vari-focal lens
Lens mount	Ball-Joint Lens Mount
Horizontal viewing angle	100.3° to 29°
Focal length	f=2.8 to 9.5mm
F-number	F1.3 (wide), F2.9 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 384 x 288, 320 x 240
Image size (H x V) JPEG	1280 x 960, 960 x 720, 768 x 576, 640 x 480, 384 x 288, 320 x 240
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480), 15fps (1280 x 960, 768 x 576)
Audio	
Audio compression	G.711 (64kbps)/G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, UDP, RTSP
Number of clients	10
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC xl, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	600 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.15lx (50IRE, F1.3, ACG 36dB)
General	
Zoom ratio	x3.4 optical zoom (x2 digital zoom)
Weight	Approx. 780g
Dimensions (W x H x D)	Approx. 140 x 118mm
Power requirements	AC 24V, DC 12V, PoE
Power consumption	8W max.
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core2 Duo, 2GHz or higher. RAM: 1GB or more
Supplied Accessories	
	CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual, Bracket, Template, M4 Screws (4), Wire Rope, M4 Shoulder Screw, Audio Cable, I/O Cable, LAN Cable, BNC Cable

SNC-DF50P

Reproducing extremely clear and detailed images – Sony Professional's intelligent mini-dome cameras provide a high level of security, anytime and anywhere.

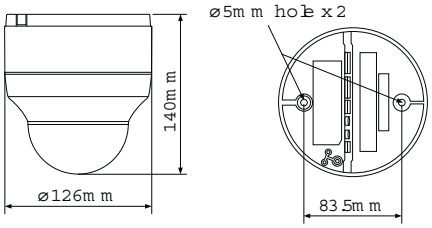
Key Features and Benefits

- **1/3-type CCD.** Clear high performance images
- **DynaView™ technology.** High quality images even in high contrast scenes
- **Dynamic frame integration.** Reduces motion blur in high speed images
- **JPEG, MPEG-4 and H.264 streaming.** Maximum flexibility in image data streaming
- **Bi-directional audio with voice alert.** Audio may be transmitted in both directions. Pre-recorded audio messaging also available
- **In-built pre and post alarm image storage.** On-board storage of alarm image video

Standard Features and Benefits

- **Privacy masking.** Ideal for masking sensitive areas of the video image

Dimensions



Specifications

Camera	
Image device	1/3-type CCD with DynaView Technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1/50 to 1 /10,000s
Auto gain control (AGC)	Auto, EV compensation, DynaView
Exposure control	Auto, Back- Light -Compensation (BLC)
White balance modes	ATW, ATVV Pro
Lens type	Vari-focal lens
Lens mount	Ball-Joint Lens Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
F-number	F 1.3 (wide), F 3.0 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	704 x 576, 320 x 240, 160 x 120
Image size (H x V) JPEG	704 x 576, 320 x 240, 160 x 120
Image size (H x V) H.264	704 x 576, 320 x 240, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	16fps (640 x 480), 25fps (320 x 240)
Audio	
Audio compression	G.711 (64kbps)/G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, FFP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC x I, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	480 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.7lx (50 IRE, F1.3, AGC ON)
General	
Zoom ratio	x3.6 optical zoom
Weight	Approx. 920g
Dimensions (W x H x D)	Approx. 126 x 140mm
Power requirements	AC 24V, DC 12V. PoE
Power consumption	9W max
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more
Supplied Accessories	
	Template, Wire Rope, M4 Shoulder Screw, AC Power Cord, Monitor Cable, CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual

SNC-DS60

New network mini-dome camera with ExwavePRO™ technology for clear, detailed, and amazingly bright surveillance monitoring images.

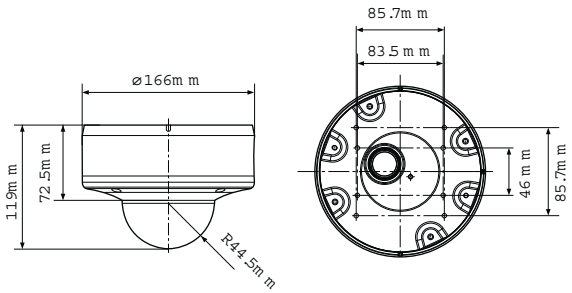
Key Features and Benefits

- **1/4-type progressive scan CCD with ExwavePRO™ technology.** High resolution images with superior sensitivity
- **Day/night function.** Ideal for mechanical switching to monochrome in night conditions
- **Solid PTZ.** Electronic pan, tilt and zoom function allows accurate image tracking and acquisition
- **Dual encoding.** Maximum flexibility when streaming video data
- **Bi-directional audio with voice alert.** Audio may be transmitted in both directions. Voice preset can store pre-recorded warning messages
- **Analogue video output.** Ideal for assisting in image set-up during installation

Standard Features and Benefits

- **Quick focus function.** Ideal for quick set up of image focus during installation
- **DEPA compatible.** Allows access to powerful video analytics and intelligent motion detection and alarm functions
- **Privacy masking.** Ideal for masking sensitive areas of the video image
- **Ruggedised design with flexible mounting options.** Ideal for outdoor use, may be mounted in ceiling or wall applications

Dimensions



Specifications

Camera	
Image device	1/4-type Progressive Scan CCD with ExwavePRO Technology
Number of total pixels	350,000
Number of effective pixels (HxV)	Approx. 330,000 (659 x 494)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (0dB to +36dB)
Exposure control	Auto, Backlight compensation, Gamma settings
White balance modes	ATW, ATW Pro
Lens type	Vari-focal lens
Horizontal viewing angle	73° to 20°
Focal length	f=2.8 to 10.0mm
F-number	F 1.3 (wide), F 3.0 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 384 x 288, 320 x 240
Image size (H x V) JPEG	768 x 576, 640 x 480, 384 x 288, 320 x 240
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (768 x 576)
Audio	
Audio compression	G.711 (64kbps)/G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP. FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, RTSP
Number of clients	10
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC xl, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	400 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.15lx (50IRE, F1.3, ACG 36dB)
Sensitivity monochrome	0.05lx (50IRE, F1.3, AGC 36dB)
General	
Zoom ratio	x3.6 optical zoom (x2 digital zoom)
Weight	Approx. 1.4kg
Dimensions (W x H x D)	Approx. 166 x 119mm
Power requirements	AC 24V, DC 12V, PoE
Power consumption	15W max.
Operating temperature	-30 to 50°C (-22 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 2.4GHz or higher, Intel Core2 Duo, 1.8GHz or higher. RAM: 1GB or more
Supplied Accessories	
	CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual, Bracket, Template, Torx Wrench, M4 Screws (4), Wire Rope, M4 Shoulder Screw, Audio Cable, I/O Cable, LAN Cable

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org)
This product includes cryptographic software written by Eric Young (eay@crytposoft.com)

SNC-DM160

New network mini-dome cameras with ExwavePRO™ technology and resolution up to 1.3 megapixels - for clear, detailed, and amazingly bright surveillance monitoring images.

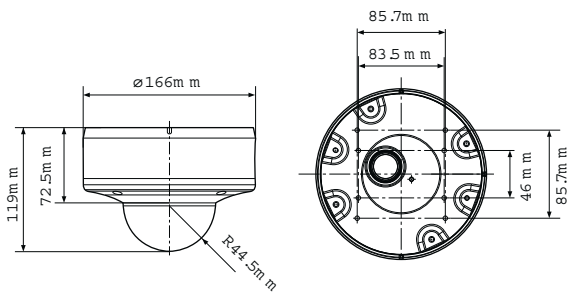
Key Features and Benefits

- **Progressive Scan CCD With ExwavePRO™ technology.** High sensitivity for crisp clear images
- **Megapixel.** High quality 1.3 megapixel image
- **Light Funnel Function.** Unique function offers usable images in extremely low light
- **Dual encoding.** Maximum flexibility when streaming video data
- **Analogue video output.** Ideal for assisting set up during installation
- **Solid PTZ.** Electronic pan, tilt, zoom facility with flexible image cropping function may be linked to intelligent VMD
- IMD **Intelligent Motion Detection.** Highly flexible VMD may be linked to DEPA™ enabled s/w

Standard Features and Benefits

- **Quick focus function.** Ideal for high speed focus of camera image during installation
- **Ruggedised with flexible mounting options.** Ideal for use in outdoor conditions. Can be ceiling or wall mounted
- **Privacy zone masking.** Flexible privacy masking of images
- **Power over ethernet.** Allows remote transmission of power by utilising installed ethernet cable, thus reducing the amount of cable and associated costs on site

Dimensions



Specifications

Camera	
Image device	1/3-type Progressive Scan CCD with ExwavePRO Technology
Number of total pixels	Approx. 1,320,000
Number of effective pixels (HxV)	1,250,000 (1296 x 966)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (0dB to +36dB)
Exposure control	Auto, Back-Light-Compensation (BLC), Gamma settings
White balance modes	ATW, ATW Pro
Lens type	Vari-focal lens
Lens mount	Ball-Joint Lens Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
F-number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 384 x 288, 320 x 240
Image size (H x V) JPEG	1280 x 960, 960 x 720, 768 x 576, 640 x 480, 384 x 288, 320 x 240
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480), 15fps (1280 x 960, 768 x 576)
Audio	
Audio compression	G.711 (64kbps)/ G.726 (40,32,24,16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, UDP, RTSP
Number of clients	10
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC x 1, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5VDC plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	600 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.40 lx at F1.3 (50 IRE, AGC ON 30 db)
Sensitivity monochrome	0.08 lx at F1.3 (50 IRE, AGC ON 30db)
General	
Zoom ratio	x3.6 optical zoom (x2 digital zoom)
Weight	Approx. 1.4kg
Dimensions (W x H x D)	Approx. 166 x 119mm
Power requirements	PoE/AC 24V/DC 12V
Power consumption	15W max.
Operating temperature	-30 to 50°C (-22 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more
Supplied Accessories	
	CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual, Bracket, Template, Torx Wrench, M4 Screws (4), Wire Rope, M4 Shoulder Screw, Audio Cable, I/O Cable, LAN Cable

SNC-DF80P

Reproducing extremely clear and detailed images – Sony Professional's intelligent mini-dome cameras provide a high level of security, anytime and anywhere.

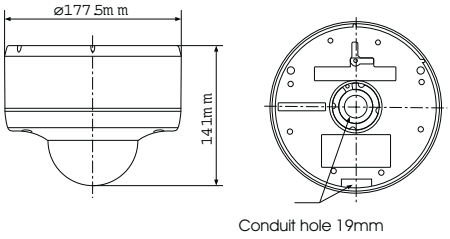
Key Features and Benefits

- **1/3-type SuperExwave™ CCD.** Clear high performance images
- **Dynamic frame integration.** Reduces motion blur in high speed images
- **JPEG, MPEG-4 and H.264 streaming.** Maximum flexibility in image data streaming
- **Day/night function.** Ideal for switching to monochrome under night conditions
- **In-built pre and post alarm image storage.** On-board storage of alarm image video
- **Bi-directional audio with voice alert.** Audio may be transmitted in both directions. Pre-recorded audio messaging also available

Standard Features and Benefits

- **Ruggedised design.** Ideal for hostile outdoor conditions
- **PC card expansion slot.** Wide range of accessories available

Dimensions



Conduit hole 19mm

Specifications

Camera	
Image device	1/3-type SuperExwave CCD
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 /50 to 1 /10,000s
Auto gain control (AGC)	On/Off (0dB to +24dB)
Exposure control	Auto, Back- Light-Compensation (BLC)
White balance modes	ATW, ATW Pro
Lens type	Vari-focal lens
Lens mount	Ball-Joint Lens Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
F-number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	704 x 576, 320 x 240, 160 x 120
Image size (H x V) JPEG	704 x 576, 320 x 240, 160 x 120
Image size (H x V) H.264	704 x 576, 320 x 240, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	16fps (640 x 480), 25fps (320 x 240)
Audio	
Audio compression	G.711 (64kbps) /G. 726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP. FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/ RTCP, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC xl, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5VDC plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	540 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.6lx (50IRE, F1.3, AGC ON)
Sensitivity monochrome	0.06lx (50IRE, F1.3, AGC ON)
General	
Zoom ratio	x3.6 optical zoom
Weight	Approx. 1.8kg
Dimensions (W x H x D)	Approx. 177 x 141mm
Power requirements	AC 24V, DC 12V, PoE
Power consumption	10W max.
Operating temperature	-10 to 50°C (14 to 122°F)/-40 to 50°C (-40 to 122°F) with optional heater unit
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Bracket, Template, Torx Wrench, M4 Screws (4), Wire Rope, M4 Shoulder Screw, Audio Cable, I/O Cable, CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual

SNC-DF85P

Reproducing extremely clear and detailed images – Sony Professional's intelligent mini-dome cameras provide a high level of security, anytime and anywhere.

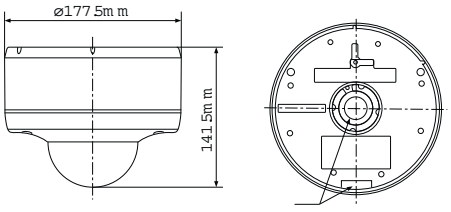
Key Features and Benefits

- **1/3-type CCD.** Clear high performance images
- **DynaView™ technology.** Excellent images even in high contrast scenes
- **Dynamic frame integration.** Reduces motion blur in high speed images
- **JPEG, MPEG-4 and H.264 streaming.** Maximum flexibility in image data streaming
- **Day/night function.** Ideal for switching to monochrome under night conditions
- **In-built pre and post alarm image storage.** On-board storage of alarm image video
- **Bi-directional audio with voice alert.** Audio may be transmitted in both directions. Pre-recorded audio messaging also available

Standard Features and Benefits

- **Ruggedised design.** Ideal for hostile outdoor conditions
- **PC card expansion slot.** Wide range of accessories available
- **Privacy masking.** Ideal for masking sensitive areas of the video image

Dimensions



Conduit hole 19mm

Specifications

Camera	
Image device	1/3-type CCD SuperExwave Technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 /50 to 1 /10,000s
Auto gain control (AGC)	On/Off (0dB to +24dB)
Exposure control	Auto, Back- Light-Compensation (BLC)
White balance modes	ATW, ATW Pro
Lens type	Vari-focal lens
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
F-number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	704 x 576, 320 x 240, 160 x 120
Image size (H x V) JPEG	704 x 576, 320 x 240, 160 x 120
Image size (H x V) H.264	704 x 576, 320 x 240, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	16fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps)/G. 726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP. FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC xl, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power) Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	480 TVL
S/N ratio	More than 50dB
Sensitivity colour	0.7lx (50IRE, F1.3, AGC ON)
Sensitivity monochrome	0.15lx (50IRE, F1.3 AGC ON)
General	
Zoom ratio	x3.6 optical zoom
Weight	Approx. 1.8kg
Dimensions (W x H x D)	Approx. 177 x 141mm
Power requirements	AC 24V, DC 12V, PoE
Power consumption	10W max.
Operating temperature	-10 to 50°C (14 to 122°F)/-40 to 50°C (-40 to 122°F) with optional heater unit
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Bracket, Template, Torx Wrench, M4 Screws (4), Wire Rope, M4 Shoulder Screw, Audio Cable, 1/0 Cable, CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual

SNC-DH140 / DH140T

Delivering HD resolution images in all lighting conditions and utilising state-of-the-art image enhancement with the View-DR wide dynamic range and XDNR noise reduction technologies, the SNC-DH140 from Sony represents the very latest in mini-dome, HD network camera technology.

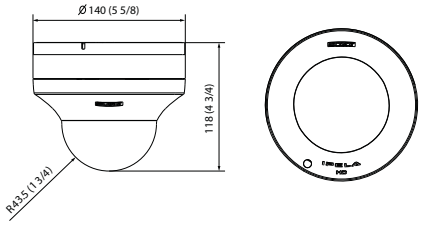
Key Features and Benefits

- **Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter.** Designed for security with superior HD image resolution in all lighting conditions
- **View-DR enhanced wide Dynamic range technology.** Superior performance in high contrast lighting conditions
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
- **Easy focus function.** Automatic adjustment of image focusing simplifies installation
- **Easy zoom function.** Adjusts the focus relative to the zoom ratio
- **Advanced audio detection.** Monitors and stores ambient audio levels to deliver highly accurate audio alarm triggering

Standard Features and Benefits

- **Triple codec support.** Delivers flexible image compression formats to overcome bandwidth limitations
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance
- **Onvif support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	SNC-DH140	SNC-DH140T
Image device	1/3 type progressive scan CMOS	
Minimum illumination	Day : 0.20 lx, Night : 0.10 lx (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE[IP])	
Number of effective pixels (HxV)	Approx. 1.4 Megapixel	
Electronic shutter speed	1s to 1/10,000s	
Auto gain control (AGC)	Max gain setting LOW, MID, HIGH	
Exposure control	Auto, EV Compensation*1, Auto Slow Shutter*2	
White balance modes	Auto (ATW, ATW-Pro), Preset, One-push WB, Manual	
Lens type	Vari-focal lens	
Zoom ratio	Approx. 2.9X	

Specifications (continued)

Camera (continued)	SNC-DH140	SNC-DH140T
Horizontal viewing angle	31.2 to 85.4°	
Focal length	f=3.1 to 8.9mm	
F-number	F1.2 (wide), F2.1 (tele)	
Easy Focus	Yes	
Easy Zoom	Yes	
Camera Features		
Day/Night*3	Yes	
Wide-D	View-DR*4 (125 dB)	
Image enhancement	Visibility Enhancer	
Noise reduction	XDNR	
Vandal resistant standard	No	Yes
Image		
Codec image size (H x V)	1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 640 x 480, 640 x 368, 384 x 288, 320 x 240, 320 x 192	
Video compression format	H.264, MPEG-4, JPEG	
Maximum frame rate	H.264/MPEG-4/JPEG: 30 fps (1280 x 720)	
Audio		
Audio compression	G.711/G.726	
Scene analytics		
Intelligent motion detection	Yes (with built-in Post Filter)	
Intelligent object detection	No	
Advanced audio detection	Yes*5	
Network		
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)	
ONVIF conformance	Yes	
Wireless network	No	
Number of clients	10	
Authentication	IEEE802.1X	
Interface		
Ethernet connectivity	10BASE-T / 100BASE-TX (RJ-45)	
Serial interface	No	
Card slots	No	
Analogue video output	Composite video (1Vp-p)	
Sensor input	x1	
Alarm output	x2	
External microphone input	Mini-jack (monaural), MIC IN/LINE IN: 2.47VDC plug-in power	
Audio line output	Mini-jack (monaural), Max output level: 1 Vrms	
Analogue video output		
Signal system	NTSC/PAL	
Horizontal resolution	600 TV lines	
S/N ratio	more than 50 dB	
General		
Mass	Approx. 750 g (1 lb 10 oz)	
Dimensions (W x H x D)	140 x 118 mm	
Power requirements	PoE, AC24V, DC12V	
Power consumption	8.0 W max.	
Operating temperature	-10 to +50 °C*7 (-14 to 122 °F)	
Storage temperature	-20 to +60 °C (-4 to 140 °F)	
System requirements		
Operating system	Windows Vista®, Microsoft Windows XP	
Processor	Intel Core2 Duo 2GHz or higher	
Memory	1GB or more	
Web browser	Microsoft Internet Explorer Ver6.0, Ver7.0	
Supplied Accessories		
	CD-ROM (User's guides, SNC Toolbox), Installation manual, Template, Wire rope, Bracket, LAN cable, BNC cable, Power input cable, I/O cable, Audio Cable, Warranty booklet, M4 shoulder screw, M4 screws (2)	

*1 Visibility Enhancer off mode only *2 View-DR off mode only *3 Removable IR Cut Filter
*4 View-DR technology is a combination of Sony's full-capture Wide-D technology, the high-speed "Exmor" CMOS sensor, and Visibility Enhancer. *5 Available with software version 1.1 or later *6 With optional SNCA-CFW5 *7 Cold start temperature must be greater than 0°C.

SNC-DH180

Vandal-resistant HD Mini-dome camera, with wide dynamic range and built-in infrared (IR) illuminators. This rugged camera features state-of-the-art image enhancement technology, View-DR and XDNR.

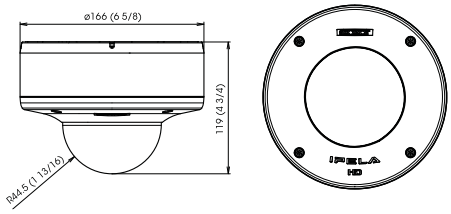
Key Features and Benefits

- **IR Illuminator.** Clearly captures objects in the dark up to 15m (49 feet) away with IR illuminators, which allows the camera to operate in 0 lux lighting conditions
- **Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter.** Designed for security with superior HD image resolution in all lighting conditions
- **View-DR enhanced wide Dynamic range technology.** Superior performance in high contrast lighting conditions
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
- **Easy focus function.** Automatic adjustment of image focusing simplifies installation
- **Easy zoom function.** Adjusts the focus relative to the zoom ratio

Standard Features and Benefits

- **Triple codec support.** Delivers flexible image compression formats to overcome bandwidth limitations
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance
- **ONVIF support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products
- **IP66 Rated.** Maximum environmental protection for heavy duty outdoor monitoring applications

Dimensions



Specifications

Camera	SNC-DH180
Image device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	0.2 lx (Color) 0 lx (B/W) - IR ON (F1.2 / View-DR Off/VE Off / AGC High(48dB max.) / XDNR Middle / 50IRE [IP])
Number of effective pixels (HxV)	1.4 Megapixel (1329 x 1049)
Electronic shutter	1s to 1/10000s
Auto gain control (AGC)	Auto (3 levels)
Exposure control	Auto, EV Compensation *1, Auto Slow Shutter *2
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Vari-focal lens
Horizontal viewing angle	85.4 to 31.2 degrees
Focal length	f=3.1 to 8.9 mm

Specifications (continued)

Camera (continued)	SNC-DH180
F-number	F1.2 (wide), F2.1 (tele)
Minimum object distance	300 mm
Powered Focus	Yes (Easy Focus)
Powered Zoom	Yes (Easy Zoom)
IR illuminators	Yes (Wave Length: 850nm [Typical], IR LED: 21pcs)
Camera Features	
Day/Night *3	Yes
Wide-D	View-DR (125dB: Theoretical)
Image enhancement	Visibility Enhancer
Noise reduction	XDNR
Image	
Codec image size (H x V)	1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 640 x 480, 640 x 368, 384 x 288, 320 x 240, 320 x 192 (H.264, MPEG-4, JPEG)
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	H.264: 20fps (1280 x 1024) MPEG-4: 25fps (1280 x 1024) JPEG: 30fps (1280 x 1024) H.264/MPEG-4/JPEG: 30 fps (1280 x 720)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Rule filter	Yes
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
Number of clients	10
ONVIF conformance	Yes
Wireless network	No
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card slots	No
Analogue video output	BNC x 1, RCA x 1
Sensor input	x 1
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Video system	NTSC / PAL
Horizontal resolution	600 TV lines
S/N ratio	More than 50 dB
General	
Zoom ratio	Optical 2.9X (x2 Digital Zoom)
Weight	1380 g (3 lb 1 oz)
Dimensions (W x H x D)	166 x 119 mm (6 5/8 x 4 3/4 inches)
Power requirements	PoE *4, AC24V, DC12V
Power consumption	28 W max.
Operating temperature	AC24V/DC12V: -30 to 50 °C (-22 to 122°F) PoE (IEEE802.3af): -10 to 50 °C (23 to 122°F)
Storage temperature	AC24V/DC12V: -20 to 50 °C (-4 to 122°F) PoE (IEEE802.3af): 0 to 50 °C (32 to 122°F)
Vandal resistant standard	Yes
System requirements	
Operating system	Windows XP, Windows Vista
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
Web browser	Microsoft Internet Explorer Ver 6.0 or 7.0
Supplied Accessories	
	CD-ROM (User's Guide, SNC Toolbox), Installation manual, Wire rope, Bracket, BNC cable, I/O cable, Audio cable, M4 shoulder screw, M4 screw x 4, Flyee, L-wranch, B&P Warranty Booklet, Template

*1 VE off mode only. *2 View-DR off mode only. *3 Removable IR Cut Filter. *4 When used with PoE, SNC-DH180 cannot be used with a heater. The SNC-DH180 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

SNC-DH240 / SNC-DH240T

Full-HD Network Camera delivering excellent picture quality in 1080p HD resolution at 30 frames per second. Utilising state-of-the-art image enhancement with View-DR, XDNR and the "Exmor" CMOS sensor.

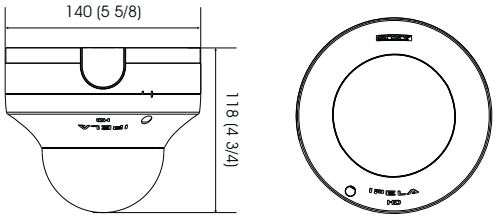
Key Features and Benefits

- **Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter.** Designed for security with superior HD image resolution in all lighting conditions
- **View-DR enhanced wide Dynamic range technology.** Superior performance in high contrast lighting conditions
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
- **Easy focus function.** Automatic adjustment of image focusing simplifies installation
- **Easy zoom function.** Adjusts the focus relative to the zoom ratio

Standard Features and Benefits

- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance
- **ONVIF support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products
- **Ruggedised design.** Ideal for hostile outdoor conditions. (on SNC-DH240T only)

Dimensions



Specifications

Camera	SNC-DH240	SNC-DH240T
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor	
Minimum illumination	TBD	
Number of effective pixels (HxV)	3 Megapixel (2096 × 1561) (Tentative)	
Electronic shutter	1s to 1/10000s	
Auto gain control (AGC)	Auto (3 levels)	
Exposure control	Auto, EV Compensation *1, Auto Slow Shutter *2	
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual	
Lens type	Vari-focal lens	

Specifications (continued)

Camera (continued)	SNC-DH240	SNC-DH240T
Horizontal viewing angle	88.5 to 32.3 degrees	
Focal length	f=3.1 to 8.9 mm	
F-number	F1.2 (Wide), F2.1 (Tele)	
Minimum object distance	300 mm	
Powered Focus	Yes (Easy Focus)	
Powered Zoom	Yes (Easy Zoom)	
Camera Features		
Day/Night *3	Yes	
Wide-D	View-DR (84dB: Theoretical) (Tentative)	
Image enhancement	Visibility Enhancer	
Noise reduction	XDNR	
Vandal resistant standard	No	Yes
Image		
Codec image size (H x V)	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080, 1440 x 912, 1376 x 768, 1280 x 960, 1280 x 800, 1280 x 720, 1280 x 1024, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640x 368, 384 x 288, 320 x 240, 320 x 192 (H.264, MPEG-4, JPEG)	
Video compression format	H.264, MPEG-4, JPEG	
Codec streaming capability	Dual streaming	
Maximum frame rate	H264: 20fps (1920 x 1440) / 30fps (1920 x 1080) MPEG-4: 15fps (1920 x 1440) / 25 fps (1920 x 1080) JPEG: 10fps (1920 x 1440) / 15fps (1920 x 1080)	
Audio		
Audio compression	G.711/G.726	
Scene Analytics		
Intelligent motion detection	Yes (with built-in Post Filter)	
Intelligent object detection	No	
Rule filter	Yes	
Network		
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)	
Number of clients	10	
ONVIF conformance	Yes	
Wireless network	No	
Authentication	IEEE802.1X	
Interface		
Ethernet	10BASE-T / 100BASE-TX (RJ-45)	
Serial interface	No	
Card slots	No	
Analogue video output	BNC x 1, RCA x 1	
Sensor input	x 1	
Alarm output	x 2	
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power	
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms	
Analogue video output		
Video system	NTSC / PAL	
Horizontal resolution	TBD	
S/N ratio	More than 50 dB	
General		
Zoom ratio	Optical 2.9X (x2 Digital Zoom)	
Weight	750g (1 lb 10 oz)	
Dimensions (W x H x D)	140 x 118 mm (5 5/8 x 4 3/4 inches)	
Power requirements	PoE, AC24V, DC12V	
Power consumption	TBD	
Operating temperature *5	-10 to +50 °C (14 to 122 °F) (Tentative)	
Storage temperature	-20 to +60 °C (-4 to +140 °F)	
System requirements		
Operating system	Windows XP, Windows Vista, Windows 7	
Processor	Intel Core2 Duo 2GHz or higher	
Memory	1GB or more	
Web browser	Microsoft Internet Explorer Ver6.0, 7.0, or 8.0	

*1 VE off mode only. *2 View-DR off mode only. *3 Removable IR Cut Filter. *4 With optional SNCA-CFW5. *5 Cold start must be greater than -20 degree. * The SNC-CH240 and SNC-DH240 include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

SNC-P5

To meet the growing demand for high quality, affordable remote monitoring systems, Sony has introduced a new addition to its line of network cameras – the SNC-P5 MPEG-4 PTZ.

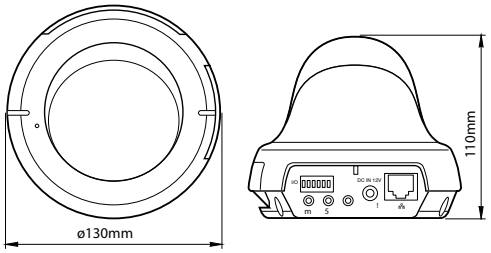
Key Features

- **1/4-type progressive scan CCD.** Clear high performance images
- **Dual encoding.** Maximum flexibility when streaming video data
- **Bi-directional audio with built-in microphone.** Transmits audio in both directions, in-built microphone transmits audio from remote site

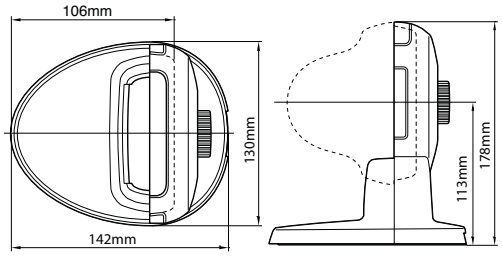
Standard Features and Benefits

- **Pan/Tilt/Zoom capability.** Allows coverage of large areas with motorised pan, tilt and 3x zoom capability
- **Compact flash expansion slot.** Allows flexibility for additional storage and accessories
- **Motion detection alarm trigger.** External alarm output from motion triggered alarms
- **In-built pre and post alarm image storage.** Allows internal storage of alarm images

Dimensions



Stand



Specifications

Camera	
Image device	1/4-type progressive scan CCD
Number of effective pixels (HxV)	330,000 (659 x 494)
Electronic shutter	Auto/Manual (1 to 1/10,000s)
Exposure control	Auto, Shutter priority, Manual
White balance modes	Auto, Indoor, Outdoor, One-push, Manual
Lens type	Pan focus optical zoom lens
Horizontal viewing angle	Horizontal 20 to 55.8°, Vertical: 15.1 to 43.3
Focal length	f=3.4mm, to 10.2mm
F-number	F2.8 (Wide) to 3.9 (Tele)
Minimum object distance	0.4m (Wide), 1.4m (Tele)
Image	
Image size (H x V) MPEG-4	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
Image size (H x V) JPEG	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
MPEG-4 frame rate	25fps (320x240), 15fps (640 x 480)
JPEG frame rate	25fps (320x240), 18fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP, NTP, SNMP (MIB-2), RTP/RTCP, PPPoE
Number of clients	10 (MPEG4), 20 (JPEG)
Interface	
Analogue connectivity	Mini-jack (1.0V p-p, 75Ω, Sync negative)
Ethernet connectivity	100Base-TX/10Base-T (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 1
Audio connectivity	Built-in Microphone: Electret condenser micophone (omni-directional). External Microphone Input: Mini-jack, 2.2kΩ Unbalanced (RCA), 2.5V plug-in power. Line Output: Mini-jack (mono), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	400TV Line
S/N ratio	48dB
Sensitivity colour	3.5lx (F2.8, 30IRE, AGC ON)
General	
Zoom ratio	x3 optical zoom
Weight	Approx. 380g / Stand Approx 360g
Dimensions (W x H x D)	Camera:130 x 130 x 110mm/Stand: 130 x 178 x 142mm
Power requirements	DC 12V
Power consumption	6.2W
Operating temperature	0 to +35°C (32 to 95°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	AC Power Adaptor MPA-AC1 (Sony) (x1), Stand (x1), Wall-Mount (x1)

SNC-RZ25P

Effective and efficient remote network monitoring – the SNC-RZ25NP offers MPEG-4 or JPEG compression and PTZ (Pan/Tilt/Zoom) in a single package.

Key Features and Benefits

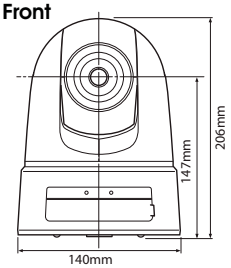
- **1/4-type CCD with Exwave HAD™ technology.** High quality images with superior sensitivity
- **Dual encoding.** Maximum flexibility when streaming video data
- **Day/night function.** Ideal for mechanical switching to monochrome in night conditions
- **Bi-directional audio.** Audio may be transmitted in both directions
- **Motion detection alarm handling with pre-alarm function.** Alarms generated on image motion, can be used to trigger external alarm device
- **Analogue video output.** Ideal for assisting in image set-up during installation

Standard Features and Benefits

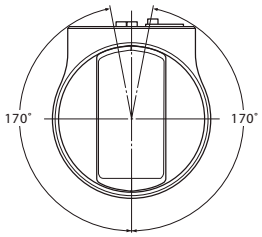
- **Manual and electronic zoom functions.** 18x optical, 216x with electronic function
- **Accessory expansion slot.** Allows for addition of external image storage accessories
- **Image Flip function.**

Dimensions

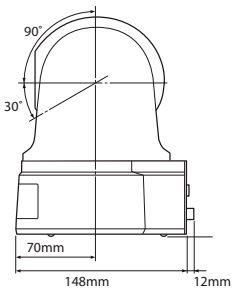
Front



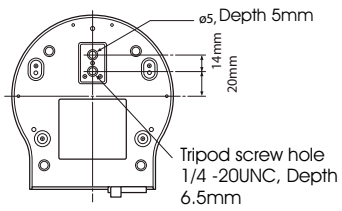
Top



Side



Bottom



Specifications

Camera	
Image device	1/4-type CCD ExwaveHAD CCD
Number of effective pixels (HxV)	444,000 (752 x 582)
Electronic shutter	1/1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (-3dB to 28dB)
Exposure control	Auto, Shutter priority, Iris priority, Manual
White balance modes	Auto, Indoor, Outdoor, One-push, ATW, Manual
Lens type	Auto Focus Zoom Lens
Focal length	f = 4.1mm to 73.8mm
F-number	F1.4 (Wide), F3.0 (Tele)
Minimum object distance	300mm (wide), 800mm (tele)
Image	
Image size (H x V) MPEG-4	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
Image size (H x V) JPEG	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
MPEG-4 frame rate	25fps (320x240), 15fps (640 x 480)
JPEG frame rate	25fps (320x240), 18fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP, NTP, SNMP (MIB-2), RTP/RTCP, PPPoE
Number of clients	10 (MPEG4), 20 (JPEG)
Interface	
Analogue connectivity	BNC x1, composite video 1.0Vp-p, 75Ω
Ethernet connectivity	10 Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack, 2.4V DC plug-in power, 4.7k ohm. Line Output: Mini-jack (Monaural), Max output level: 0.9Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	More than 460 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.7lx (50IRE, F1.4, AGC ON)
General	
Zoom ratio	x18 optical zoom (x216 with digital zoom)
Weight	Approx. 1.3kg
Dimensions (W x H x D)	140 x 206 x 148mm
Power requirements	AC 24V/DC 12V
Power consumption	18W max.
Operating temperature	0 to 40°C (32 to 104°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Ceiling Mount-Kit, CD-ROM (User's Guide, Setup and SNC Panorama Creator Software), Installation Manual

SNC-RZ50P

The SNC-RX series, SNC-RZ50 and SNC-CS50 third-generation network cameras are the latest in a series of Sony network cameras that support Intelligent Video Analytics. This efficient and intelligent processing method can provide greater operational efficiency and a high level of security.

Key Features and Benefits

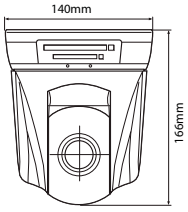
- **1/4-type CCD with Exwave HAD™ technology.** Clear high performance images
- **Dynamic frame integration.** Reduces motion blur from high speed images
- **JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- **Day/night function.** Switches automatically to mono in night conditions
- **Dual encoding.** Maximum flexibility when streaming video data
- **In-built pre and post alarm image storage.** On-board storage of alarm images
- **Analogue video output.** Ideal for assisting in image set-up during installation

Standard Features and Benefits

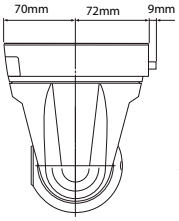
- **Pan/Tilt/Zoom capability.** Wide coverage of image scene with motorised pan, tilt and zoom functions
- **Image stabilizer.** Reduces image shake
- **DEPA compatible.** Powerful image analytics available
- **PC card expansion slot.** Wide range of expansion accessories available
- **Compact Flash expansion slot.**
- **Privacy masking.** Ideal for masking sensitive areas of the video image
- **Voice alerts.** Voice preset can store pre-recorded warning messages

Dimensions

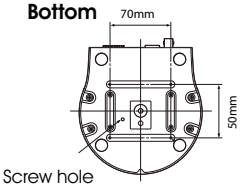
Front



Side



Bottom



Specifications

Camera	
Image device	1/4-type Super HAD CCD
Number of total pixels	740,000
Number of effective pixels (HxV)	400,000 (702 x 575)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (-3dB to 28dB)
Exposure control	Auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance modes	Auto, Indoor, Outdoor, One-push, WB, ATW, Manual
Lens type	Auto-focus zoom lens
Horizontal viewing angle	1.7° to 42.0°
Focal length	f=3.5 to 91.0mm
F-number	F1.6 (wide), F3.8 (tele)
Minimum object distance	320mm (wide), 1,500mm (tele)
Image	
Image size (H x V) MPEG-4	704 x 576, 640 x 480, 384 x 288, 320 x 240, 160 x 120
Image size (H x V) JPEG	704 x 576, 640 x 480, 384 x 288, 320 x 240, 160 x 120
Image size (H x V) H.264	704 x 576, 640 x 480, 384 x 288, 320 x 240, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	16fps (640 x 480), 25fps (320 x 240)
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, SMTP, SNMP, RTP/RTCP, SSL (HTTPS), DNS, NTP, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	x1 BNC, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	450 TV lines
S/N ratio	More than 50dB
Sensitivity colour	2.2lx (50IRE, F1.6, AGC ON),
Sensitivity monochrome	0.3lx (50IRE, F1.6, AGC ON)
General	
Zoom ratio	x26 optical zoom (x312 with digital zoom)
Weight	1.2kg
Dimensions (W x H x D)	140 x 166 x 142mm
Power requirements	DC 12V
Power consumption	20W max.
Operating temperature	0 to 40°C (32 to 104°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Ceiling-Mount Bracket (A), Ceiling-Mount Bracket (B), Screws x6, Wire Rope, AC Adaptor, AC Cable, CD-ROM (Setup Software), Operation Manual, Installation Manual, Mount Bracket Cover, Shoulder Screw, Plug Retainer, Rubber Feet x4

SNC-RX530

Intelligent and feature rich – Sony high-performance multi-codec network cameras deliver efficient 24/7 performance.

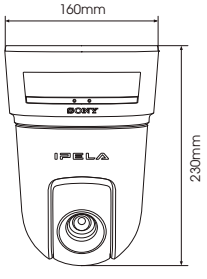
Key Features

- **1/4-type CCD with Exwave HAD™ technology.** Clear high performance images
- **Dynamic frame integration.** Reduces motion blur from high speed images
- **JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- **Day/night function.** Switches automatically to mono in night conditions
- **Dual encoding.** Maximum flexibility when streaming video data
- **In-built pre and post alarm image storage.** On-board storage of alarm images
- **Bi-directional audio with voice alert.** Audio may be transmitted in both directions. Voice preset can store pre-recorded warning messages
- **Analogue video output.** Ideal for assisting in image set-up during installation

Standard Features and Benefits

- **Pan/Tilt/Zoom capability.** Wide coverage of image scene with motorised pan, tilt and 18x zoom functions
- **Image stabilizer.** Reduces image shake
- **DEPA compatible.** Powerful image analytics available
- **PC card expansion slot.** Wide range of expansion accessories available
- **Memory stick slot.**
- **Privacy masking.** Ideal for masking sensitive areas of the video image
- **Voice alerts.** Voice preset can store pre-recorded warning messages

Dimensions



Specifications

Camera	
Image device	1/4-type Exwave HAD CCD
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (-3dB to +28dB)
Exposure control	Auto (Full auto, Shutter-priority, Iris-priority), Manual, EV compensation, Backlight compensation
White balance modes	Auto, Indoor, Outdoor, One-push, ATW, Manual
Lens type	Auto-focus zoom lens
Horizontal viewing angle	Horizontal 2.2° to 48°
Focal length	f=4.1 to 73.8mm
F-number	F1.4 (wide), F3.0 (tele)
Minimum object distance	290mm (wide), 800mm (tele)
Image	
Image size (H x V) MPEG-4	704 x 576, 640 x 480, 384 x 288, 160 x 120
Image size (H x V) JPEG	704 x 576, 640 x 480, 384 x 288, 160 x 120
Image size (H x V) H.264	704 x 576, 640 x 480, 384 x 288, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	16fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, SMTP, SNMP, RTP/RTCP, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	460 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.7lx (50IRE, F1.4, AGC ON),
Sensitivity monochrome	0.15lx (50IRE, F1.4, AGC ON)
General	
Zoom ratio	x18 optical zoom (x216 with digital zoom)
Weight	2.2kg
Dimensions (W x H x D)	160 x 160 x 230mm (Excluding cover equipment)
Power requirements	AC 24V, DC 12V
Power consumption	24W max.
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Ceiling-Mount Bracket (A), Ceiling-Mount Bracket (B), Screws x6, Wire Rope, CD-ROM (Setup Software), Operation Manual, Installation Manual

SNC-RX550

Intelligent and feature rich – Sony high-performance multi-codec network cameras deliver efficient 24/7 monitoring.

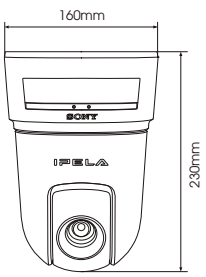
Key Features and Benefits

- **1/4-type CCD with Exwave HAD™ technology.** Clear high performance images
- **Dynaview wide dynamic range technology.** Exceptional images even in high contrast scenes
- **Dynamic frame integration.** Reduces motion blur from high speed images
- **JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- **Day/night function.** Switches automatically to mono in night conditions
- **Dual encoding.** Maximum flexibility when streaming video data
- **In-built pre and post alarm image storage.** On-board storage of alarm images
- **Bi-directional audio with voice alert.** Audio may be transmitted in both directions. Voice preset can store pre-recorded warning messages
- **Analogue video output.** Ideal for assisting in image set-up during installation

Standard Features and Benefits

- **Pan/Tilt/Zoom capability.** Wide coverage of image scene with motorised pan, tilt and 36x zoom functions
- **Image stabilizer.** Reduces image shake
- **DEPA compatible.** Powerful image analytics available
- **Memory stick slot**
- **Serial Interface (VISCA)**
- **Privacy masking.** Ideal for masking sensitive areas of the video image
- **Voice alerts.** Voice preset can store pre-recorded warning messages

Dimensions



Specifications

Camera	
Image device	1/4-type Exwave HAD CCD
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (-3dB to +28dB)
Exposure control	Auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance modes	Auto, Indoor, Outdoor, One-push, ATW, Manual
Lens type	Auto-focus zoom lens
Horizontal viewing angle	Horizontal 2.2° to 54.2°
Focal length	f=3.5 to 91.0mm
F-number	F1.6 (wide), F3.8 (tele)
Minimum object distance	320mm (wide), 1,500mm (tele)
Image	
Image size (H x V) MPEG-4	704 x 576, 640 x 480, 384 x 288, 160 x 120
Image size (H x V) JPEG	704 x 576, 640 x 480, 384 x 288, 160 x 120
Image size (H x V) H.264	704 x 576, 640 x 480, 384 x 288, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	16fps (640 x 480), 25fps (320 x 240)
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, SMTP, SNMP, RTP/RTCP, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	x1 BNC, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	460 TV lines
S/N ratio	More than 50dB
Sensitivity colour	1lx at (50IRE, F1.6, AGC ON)
General	
Zoom ratio	x26 optical zoom (x312 with digital zoom)
Weight	2.2kg
Dimensions (W x H x D)	160 x 160 x 230mm (excluding cover equipment)
Power requirements	AC 24V, DC 12V
Power consumption	25W max.
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Ceiling-Mount Bracket (A), Ceiling-Mount Bracket (B), Screws x6, Wire Rope, CD-ROM (Setup Software), Operation Manual, Installation Manual

SNC-RX570

The SNC-RX Series has a high-speed 360° endless panning (or rotation) capability, which allows users to capture precisely almost any object surrounding the camera. In addition, by employing a 1/4-type Exwave HAD™ CCD, the camera delivers exceptional picture quality for any remote monitoring application, even in low-light conditions.

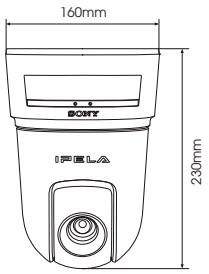
Key Features and Benefits

- **1/4-type CCD with Exwave HAD™ technology.** Clear high performance images
- **Dynaview wide dynamic range technology.** Exceptional images even in high contrast scenes
- **Dynamic frame integration.** Reduces motion blur from high speed images
- **JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- **Day/night function.** Switches automatically to mono in night conditions
- **Dual encoding.** Maximum flexibility when streaming video data
- **In-built pre and post alarm image storage.** On-board storage of alarm images
- **Bi-directional audio with voice alert.** Audio may be transmitted in both directions. Voice preset can store pre-recorded warning messages
- **Analogue video output.** Ideal for assisting in image set-up during installation

Standard Features and Benefits

- **Pan/Tilt/Zoom capability.** Wide coverage of image scene with motorised pan, tilt and 36x zoom functions
- **Image stabilizer.** Reduces image shake
- **DEPA compatible.** Powerful image analytics available
- **Memory stick slot**
- **Serial Interface (VISCA)**
- **Privacy masking.** Ideal for masking sensitive areas of the video image
- **Voice alerts.** Voice preset can store pre-recorded warning messages

Dimensions



Specifications

Camera	
Image device	1/4-type Exwave HAD CCD
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (-3dB to +28dB)
Exposure control	Auto (Full auto, Shutter-priority, Iris-priority), Manual, EV compensation, Backlight Compensation
White balance modes	Auto, Indoor, Outdoor, One-push, ATW, Manual
Lens type	Auto-focus zoom lens
Horizontal viewing angle	Horizontal 1.7° to 57.8°
Focal length	f=3.4 to 122.4mm
F-number	F1.6 (wide), F4.5 (tele)
Minimum object distance	320mm (wide), 1,500mm (tele)
Image	
Image size (H x V) MPEG-4	704 x 576, 640 x 480, 384 x 288, 160 x 120
Image size (H x V) JPEG	704 x 576, 640 x 480, 384 x 288, 160 x 120
Image size (H x V) H.264	704 x 576, 640 x 480, 384 x 288, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	Max. 16fps
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, SMTP, SNMP, RTP/RTCP, DNS, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	x1 BNC, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	530 TV lines
S/N ratio	More than 50dB
Sensitivity colour	1.4lx (50IRE, F1.6, AGC ON),
Sensitivity monochrome	0.15lx (50IRE, F1.6, AGC ON)
General	
Zoom ratio	x36 optical zoom (x432 with digital zoom)
Weight	2.2kg
Dimensions (W x H x D)	160 x 160 x 230mm (excluding cover equipment)
Power requirements	AC 24V, DC 12V
Power consumption	27W max.
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Ceiling-Mount Bracket (A), Ceiling-Mount Bracket (B), Screws x6, Wire Rope, CD-ROM (Setup Software), Operation Manual, Installation Manual

SNC-RH124

The SNC-RH124 indoor rapid dome camera delivers unrivalled image quality at HD resolution.

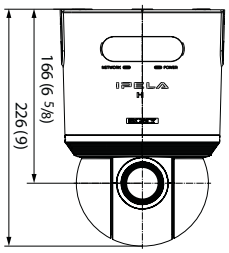
Key Features and Benefits

- **HD video at 30 fps.** Superior High Definition image quality with real time capture
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions
- **Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- **210 degree tilt angle.** Greater image capture at high angles of tilt
- **Quick Release Mechanism.** Quick and easy to install and maintain
- **ONVIF Compliant.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	HD CMOS
Day/Night	Yes
Wide-D	No
Number of effective pixels	(H x V) Approx. 2 Megapixel
Electronic shutter speed	1/2 to 1/10,000s
Auto gain control	Auto/Manual (-3dB to +18dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	10x
Horizontal viewing angle	5.4 to 50 degrees
Focal length	f=5.1 to 51mm
F-number	F1.8 (wide), F2.1 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 1280 x 720,1024 x 576, 800 x 480, 768 x 576, 640 x 480 (VGA), 640 x 368, 384 x 288, 320 x 240 (QVGA), 320 x 192
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4: 30 fps (1280 x 720)
JPEG	10 fps (1280 x 720)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2)
Wireless network	Yes (Optional card)
Number of clients	10
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol)
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x 4
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
S/N ratio	more than 50 dB
Sensitivity colour	1.9 (50IRE, AGC ON)
Sensitivity monochrome	0.17 (50IRE, AGC ON)
General	
Weight	Approx. 2.1 kg (4 lb 10 oz)
Dimensions	(ø x H) 154 x 226 mm (6 1/8 x 9 inches)
Power requirements	hPoE, AC24V, DC12V
Power consumption	27 W max
Operating temperature	0 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
	Base unit, Mounting bracket, Screws, Cables (Power input, BNC, I/O, Serial), Installation manual, CD-ROM (User's guide, SNC toolbox), Mounting template, Wire rope

DEPA Advanced

ONVIF

SNC-RH164

Ideal for heavy duty, outdoor monitoring applications, the SNC-RH164 rapid dome camera delivers unrivalled image quality at HD resolution.

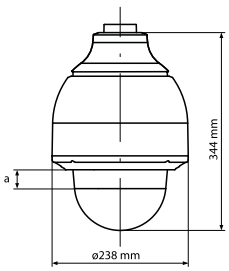
Key Features and Benefits

- **HD video at 30 fps.** Superior High Definition image quality with real time capture
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions
- **Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- **IP66 Rated.** Maximum environmental protection for heavy duty outdoor monitoring applications
- **Sunshade Ventilation Mechanism.** Delivering optimum performance in hot weather conditions the camera benefits from a special ventilation mechanism
- **210 degree tilt angle.** Greater image capture at high angles of tilt
- **Quick Release Mechanism.** Quick and easy to install and maintain
- **ONVIF Compliant.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	HD CMOS
Day/Night	Yes
Wide-D	Yes
Number of effective pixels	(H x V) Approx. 2 Megapixel
Electronic shutter speed	1/2 to 1/10,000s
Auto gain control	Auto/Manual (-3 to +18dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	10x
Horizontal viewing angle	5.4 to 50 degrees
Focal length	f=5.1 to 51mm
F-number	F1.8 (wide), F2.1 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 1280 x 720, 1024 x 576, 800 x 480, 768 x 576, 640 x 480 (VGA), 640 x 368, 384 x 288, 320 x 240 (QVGA), 320 x 192
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4: 30 fps (1280 x 720)
JPEG	10 fps (1280 x 720)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2) (Tentative)
Wireless network	Yes (With Optional card)
Number of clients	10
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol)
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x 4
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
S/N ratio	more than 50 dB
Sensitivity colour	2.1 (50IRE, AGC ON)
Sensitivity monochrome	0.19 (50IRE, AGC ON)
General	
Weight	Approx. 4.5 kg (9 lb 15 oz)
Dimensions	(ø x H) 238 x 346 mm (9 3/8 x 13 5/8 inches)
Power requirements	AC24V
Power consumption	82 W max. (Tentative)
Operating temperature	-40 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
	Base unit, Top sunshade, Rotate-and-lock coupling, Waterproof plug, Screws, Installation manual, CD-ROM (User's guide, SNC toolbox), Wire rope

SNC-RS44P

The SNC-RS44P indoor rapid dome camera delivers high image quality coupled feature-rich performance

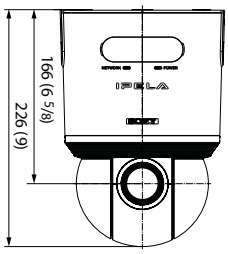
Key Features and Benefits

- **1/4" CCD with Exwave HAD™ technology.** Superior image quality with extended infra red response
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions
- **Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- **18 x optical zoom.** Powerful optical zoom capability delivers flexible image capture and tracking
- **210 degree tilt angle.** Greater image capture at high angles of tilt
- **Quick Release Mechanism.** Quick and easy to install and maintain
- **ONVIF Compliant.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	1/4-type CCD with Exwave HAD technology
Day/Night	Yes
Wide-D	Yes
Number of effective pixels	(H x V) 440,000
Electronic shutter speed	1/2 to 1/10,000s
Auto gain control	Auto/Manual (-3dB to +28dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, ATW, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	18x
Horizontal viewing angle	2.8 to 48 degrees
Focal length	f=4.1 to 73.8mm
F-number	F1.4 (wide), F3.0 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (QVGA)
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4/JPEG, 25 fps (720 x 576)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2)
Wireless network	Yes (Optional card)
Number of clients	10 (Tentative)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol) (Tentative)
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x 4
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
Horizontal resolution	530 TV lines
S/N ratio	more than 50 dB
Sensitivity colour	0.4 (50IRE, AGC ON)
Sensitivity monochrome	0.08 (50IRE, AGC ON)
General	
Weight	Approx. 2.1 kg (4 lb 10 oz)
Dimensions	(ø x H) 154 x 226 mm (6 1/8 x 9 inches)
Power requirements	hPoE, AC24V, DC12V
Power consumption	25 W max.
Operating temperature	0 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
	Base unit, Mounting bracket, Screws, Cables (Power input, BNC, I/O, Serial), Installation manual, CD-ROM (User's guide, SNC toolbox), Mounting template, Wire rope

SNC-RS46P

The SNC-RS46P indoor rapid dome camera delivers high image quality and feature-rich performance with an enhanced optical zoom range capability

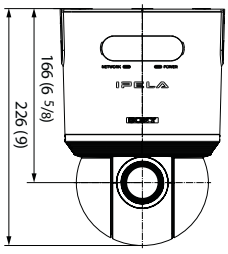
Key Features and Benefits

- **1/4" CCD with Exwave HAD™ technology.** Superior image quality with extended infra red response
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions
- **Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- **36 x optical zoom.** Powerful optical zoom capability delivers flexible image capture and tracking
- **210 degree tilt angle.** Greater image capture at high angles of tilt
- **Quick Release Mechanism.** Quick and easy to install and maintain
- **ONVIF Compliant.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	1/4-type CCD with Exwave HAD technology
Day/Night	Yes
Wide-D	Yes
Number of effective pixels	(H x V) 440,000
Electronic shutter speed	1 to 1/10,000s
Auto gain control	Auto/Manual (-3dB to +28dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, ATW, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	36x
Horizontal viewing angle	1.7 to 57.8 degrees
Focal length	f=3.4 to 122.4mm
F-number	F1.6 (wide), F4.5 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (QVGA)
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4/JPEG, 25 fps (720 x 576)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2)
Wireless network	Yes (Optional card)
Number of clients	10 (Tentative)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol) (Tentative)
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x 4
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
Horizontal resolution	530 TV lines
S/N ratio	more than 50 dB
Sensitivity colour	0.7 (50IRE, AGC ON)
Sensitivity monochrome	0.08 (50IRE, AGC ON)
General	
Weight	Approx. 2.1 kg (4 lb 10 oz)
Dimensions	(ø x H) 154 x 226 mm (6 1/8 x 9 inches)
Power requirements	hPoE, AC24V, DC12V
Power consumption	25 W max.
Operating temperature	0 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
	Base unit, Mounting bracket, Screws, Cables (Power input, BNC, I/O, Serial), Installation manual, CD-ROM (User's guide, SNC toolbox), Mounting template, Wire rope

DEPA Advanced

ONVIF

SNC-RS84P

Ideal for outdoor, heavy duty monitoring applications, the SNC-RS84P rapid dome camera delivers high image quality coupled with feature-rich performance

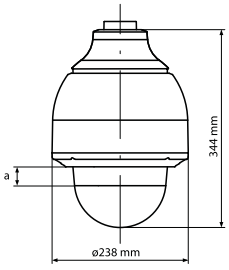
Key Features and Benefits

- **1/4" CCD with Exwave HAD™ technology.** Superior image quality with extended infra red response
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions
- **Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- **18 x optical zoom.** Powerful optical zoom capability delivers flexible image capture and tracking
- **IP66 Rated.** Maximum environmental protection for heavy duty outdoor monitoring applications
- **210 degree tilt angle.** Greater image capture at high angles of tilt
- **Quick Release Mechanism.** Quick and easy to install and maintain
- **ONVIF Compliant.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	1/4-type CCD with Exwave HAD technology
Day/Night	Yes
Wide-D	Yes
Number of effective pixels	(H x V) 440,000
Electronic shutter speed	1 to 1/10,000s
Auto gain control	Auto/Manual (-3 to +28dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, ATW, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	18x
Horizontal viewing angle	2.8 to 48 degrees
Focal length	f=4.1 to 73.8mm
F-number	F1.4 (wide), F3.0 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (QVGA)
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4/JPEG, 25 fps (720 x 576)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2)
Wireless network	Yes (Optional card)
Number of clients	10 (Tentative)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol) (Tentative)
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x 4
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
Horizontal resolution	530 TV lines
S/N ratio	more than 50 dB
Sensitivity colour	0.4 (50IRE, AGC ON)
Sensitivity monochrome	0.09 (50IRE, AGC ON)
General	
Weight	Approx. 4.5 kg (9 lb 15 oz)
Dimensions	(ø x H) 238 x 346 mm (9 3/8 x 15 5/8 inches)
Power requirements	AC24V
Power consumption	80 W max.
Operating temperature	-40 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
	Base unit, Top Sunshade, rotate and lock coupling, Waterproof plug, Screws, Cables (Power input, BNC, I/O, Serial), Installation manual, CD-ROM (User's guide, SNC toolbox), Wire rope

SNC-RS86P

Ideal for outdoor, heavy duty monitoring applications, the SNC-RS86P rapid dome camera delivers high image quality and feature-rich performance with an enhanced optical zoom range capability

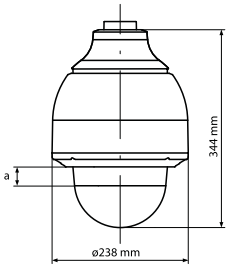
Key Features and Benefits

- **1/4" CCD with Exwave HAD™ technology.** Superior image quality with extended infra red response
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions
- **Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- **36 x optical zoom.** Powerful optical zoom capability delivers flexible image capture and tracking
- **IP66 Rated.** Maximum environmental protection for heavy duty outdoor monitoring applications
- **210 degree tilt angle.** Greater image capture at high angles of tilt
- **Quick Release Mechanism.** Quick and easy to install and maintain
- **ONVIF Compliant.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	1/4-type CCD with Exwave HAD technology
Day/Night	Yes
Wide-D	Yes
Number of effective pixels	(H x V) 440,000
Electronic shutter speed	1 to 1/10,000s
Auto gain control	Auto/Manual (-3dB to +28dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, ATW, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	36x
Horizontal viewing angle	2.8 to 48.0 degrees
Focal length	f=4.1 to 73.8mm
F-number	F1.4 (wide), F3.0 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (QVGA)
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4/JPEG, 25 fps (720 x 576)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2)
Wireless network	Yes (Optional card)
Number of clients	10 (Tentative)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol) (Tentative)
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x 4
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
Horizontal resolution	530 TV lines
S/N ratio	more than 50 dB
Sensitivity colour	0.8 (50IRE, AGC ON)
Sensitivity monochrome	0.09 (50IRE, AGC ON)
General	
Weight	Approx. 4.5 kg (9 lb 15 oz)
Dimensions	(ø x H) 238 x 346 mm (9 3/8 x 15 5/8 inches)
Power requirements	AC24V
Power consumption	80 W max.
Operating temperature	-40 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
	Base unit, Top Sunshade, rotate and lock coupling, Waterproof plug, Screws, Cables (Power input, BNC, I/O, Serial), Installation manual, CD-ROM (User's guide, SNC toolbox), Wire rope

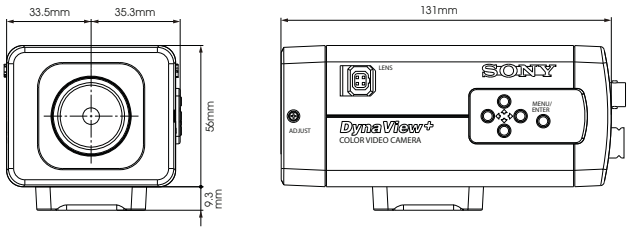
SSC-DC693P

A fixed camera offering wide dynamic range for the capture of clear and detailed images even in high contrast conditions.

Key Features and Benefits

- **1/3-type image sensor.** High resolution image capture in conditions of extreme contrast
- **DynaView™ technology.** Provides excellent images under high contrast illumination conditions
- **Day/night function.** Automatically provides monochrome images under lowlight conditions

Dimensions



Specifications

Camera	
Image device	1/3-type image sensor with DynaView+ technology
Number of effective pixels (HxV)	720 x 540
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	CUSTOM Selectable (Max :48 dB)
Exposure control	Backlight compensation ON/OFF
White balance modes	ATW-PRO/ATW/MANUAL selectable
Lens mount	CS Mount
Interface	
Analogue connectivity	BNC, 1.0 Vp-p, 75Ω, sync. negative
Analogue video output	
Video system	PAL standard
Horizontal resolution	520 TV lines
S/N ratio	More than 50dB (AGC OFF)
Sensitivity colour	0.8lx at F1.2, 50IRE, AGC=High, 2.1lx at F1.2, 50IRE, AGC=High
Sensitivity monochrome	0.01lx at F1.2, 50IRE, AGC=High, 0.05lx at F1.2, 50IRE, AGC=High
General	
Zoom ratio	x4 digital zoom
Weight	Approx 420g
Dimensions (W x H x D)	56 x 68.8 x 131mm (without tripod)
Power requirements	AC 220-230V ±10%
Power consumption	Less than 8.0W
Operating temperature	-10 to 50°C
Storage temperature	-40 to 60°C
Supplied Accessories	
	Lens Mount Cap (1), Operating Instructions (1), Menu Operations (1), Fall-prevention Wire Rope (1), Screw (1), AC Power Cable (1, AC 220-240 V only)

SSC-DC698P

A fixed camera offering wide dynamic range for the capture of clear and detailed images even in high contrast conditions.

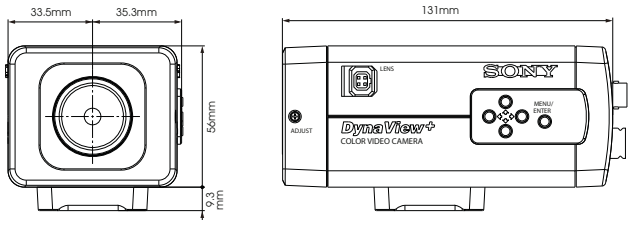
Features and Benefits

- **1/3-type image sensor.** High resolution image capture in conditions of extreme contrast
- **DynaView™ technology.** Provides excellent images under high contrast illumination conditions
- **Day/night function.** Automatically provides monochrome images under lowlight conditions

Standard Features and Benefits

- **Flexible AC and DC power requirements.** Flexible power options via automatically sensing of 12VDC or 24VAC power supplies

Dimensions



Specifications

Camera	
Image device	1/3-type image sensor with DynaView+ technology
Number of effective pixels (HxV)	720 x 540
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	CUSTOM Selectable (Max :48 dB)
Exposure control	Backlight compensation ON/OFF
White balance modes	ATW-PRO/ATW/MANUAL selectable
Lens mount	CS Mount
Interface	
Analogue connectivity	BNC, 1.0 Vp-p, 75Ω, sync. negative
Analogue video output	
Video system	PAL standard
Horizontal resolution	520 TV lines
S/N ratio	More than 50dB (AGC OFF)
Sensitivity colour	0.8lx at F1.2, 50IRE, AGC=High, 2.1lx at F1.2, 50IRE, AGC=High
Sensitivity monochrome	0.01lx at F1.2, 50IRE, AGC=High, 0.05lx at F1.2, 50IRE, AGC=High
General	
Zoom ratio	x4 digital zoom
Weight	Approx 420g
Dimensions (W x H x D)	56 x 68.8 x 131mm (without tripod)
Power requirements	AC 220-230V ±10%
Power consumption	Less than 8.0W
Operating temperature	-10 to 50°C
Storage temperature	-40 to 60°C
Supplied Accessories	
	Lens Mount Cap (1), Operating Instructions (1), Menu Operations (1), Fall-prevention Wire Rope (1), Screw (1), AC Power Cable (1, AC 220-240 V only)

SSC-DC80P

The SSC-DC80P series is a colour video camera equipped with an Exwave HAD™* technology using a 1/2-inch type CCD.

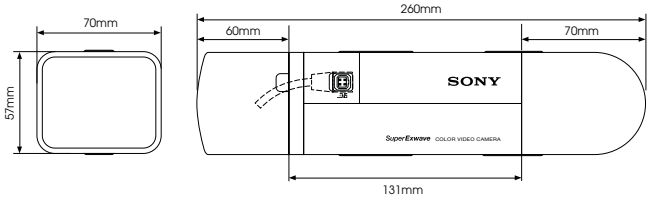
Key Features and Benefits

1/2-Exwave HAD™ technology. Very high resolution, high sensitivity images in all lighting conditions

Standard Features and Benefits

- **Wide range CCD iris.** Allows use of manual iris lens by automatically adjusting image exposure under varied lighting conditions
- **Privacy zones.** Allows masking of sensitive image areas

Dimensions



Specifications

Camera	
Image device	1/2-type CCD with Exwave HAD technology
Number of effective pixels (HxV)	768 x 494 (440,000)
Electronic shutter	ON/OFF, 1/50 to 1/100,000 switchable
Auto gain control (AGC)	Turbo/Normal/Manual/Off
Exposure control	SPOT/WEIGHT/OFF switchable (BLC)
White balance modes	ATW PRO/ATW/3200K/5600K/MANUAL
Lens mount	CS/C Mount (C-Mount adaptor is supplied)
Interface	
Analogue connectivity	BNC, 1.0Vp-p; 75Ω, sync. negative, S-Video x 1
Analogue video output	
Video system	PAL Internal/VS/VD
Horizontal resolution	480 TV lines
S/N ratio	More than 57dB (AGC OFF, weight ON)
Sensitivity colour	0.4lx (50IRE, F1.2, Turbo AGC ON)
General	
Weight	Approx 560g (1.4oz)
Dimensions (W x H x D)	70 x 57 x 131mm (without front and rear covers)
Power requirements	Multiplexing with the YS-W170P/W270P, or DC 12V ±10%
Power consumption	4.6W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
Supplied Accessories	
	CD-ROM (Setup Program and User's Guide), Wire Rope, Shoulder Screw M4, Installation Manual, C-Mount Ring Adaptor

SSC-DC83P / SSC-DC88P

Offering outstanding picture quality, the feature rich SSC-DC88P is ideal for high-end video monitoring applications.

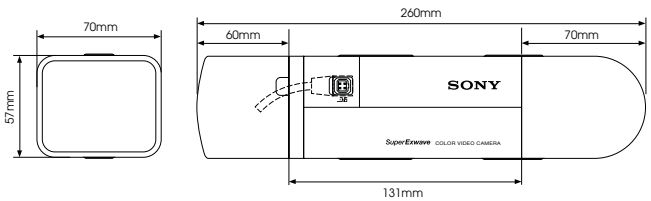
Features and Benefits

1/2-Exwave HAD™ technology. Very high resolution, high sensitivity images in all lighting conditions

Standard Features and Benefits

- **Wide range CCD iris.** Allows use of manual iris lens by automatically adjusting image exposure under varied lighting conditions
- **Privacy zones.** Allows masking of sensitive image areas
- **Custom templates.** Allows quick and easy set up for a wide range of applications

Dimensions



Specifications

Camera	SSC-DC83P	SSC-DC88P
Image device	1/2-type CCD with Exwave HAD technology	
Number of effective pixels (HxV)	440,000 (752 x 582)	
Auto gain control (AGC)	Turbo/Normal/Manual/Off	
White balance mode	ATW-pro/ATW/3200K/5600K/Manual	
Lens type	CS/C*-mount (* C-mount adaptor is supplied), DC/Video servo auto iris	
CCD iris	ON/OFF switchable, 1/50 to 1/100,000 s	
Back-Light Compensation (BLC)	SPOT/WEIGHT/OFF switchable	
Analogue video output	BNC x 1, 1.0 Vp-p, 75Ω, Sync negative, S-Video x 1	
Signal system	PAL	
Sync system	Internal/AC Line lock/VS	
Horizontal Resolution	480 TV lines	
S/N ratio	More than 57 dB (AGC OFF, WEIGHT ON)	
Minimum illumination	0.4 lx (50IRE, F1.2, Turbo AGC ON)	
General		
Weight	approx. 550 g (1.3 oz)	approx. 600 g (1.5 oz)
Dimensions (W x H x D)	70 x 57 x 260 mm (2 7/8 x 2 1/4 x 20 1/4 inches) (including front and rear covers)	
Power requirements	AC 24 V ±10 %, 50 Hz or DC 12 V ±10 %	AC 220 to 240 V ±10 %, 50 Hz
Power consumption	4.4 W	4.2 W
Operating temperature	-10 to 50°C (14 to 122°F)	
Storage temperature	-40 to 60°C (-40 to 140°F)	
Supplied Accessories		
	Lens mount cap, Operating instructions, Front cover, Rear cover, Screws (2), C-mount adaptor	Lens mount cap, Operating instructions, Front cover, Rear cover, Screws (2), Power cable

SSC-E413P / SSC-E418P

The SSC-E413P is equipped with a 1/3-type Super HAD™ CCD II, which offer improved sensitivity and colour reproduction compared to the conventional Super HAD CCD.

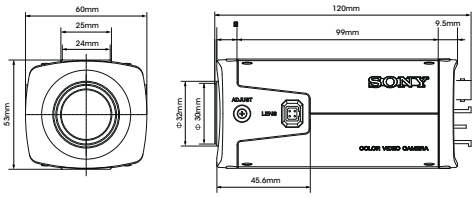
Key Features and Benefits

- **1/3-type Super HAD™ CCD II.** Very high resolution, high sensitivity images in all lighting conditions
- **Automatic backlight compensation.** Offers excellent reproduction in varying levels of Illumination

Standard Features and Benefits

- **Auto CCD Iris function.** Provides image clarity under extreme background lighting conditions

Dimensions



Specifications

Camera	SSC-E413P	SSC-E418P
Image device	1/3-type Super HAD CCD II	
Number of effective pixels (HxV)	752 x 582	
Electronic shutter	ON/OFF, 1/50 to 1/100,000 switchable	
Auto gain control (AGC)	TURBO/OFF switchable	
Exposure control	(BLC) ON/OFF switchable	
White balance modes	Auto White Balance (ATW)	
Lens mount	CS Mount	
Interface		
Analogue connectivity	1.0Vp-p, 75Ω, sync negative	
Analogue video output		
Video system	PAL standard Internal/Line Lock	
Horizontal resolution	540 TV lines	
S/N ratio	Better than 50dB (AGC OFF, WEIGHT ON)	
Sensitivity colour	0.3lx at F1.2 (50IRE, AGC ON)	
Sensitivity monochrome	0.05lx at F1.2 (50IRE, AGC ON)	
General		
Weight	360g (13oz)	385g (14oz)
Dimensions (W x H x D)	60 x 53 x 120mm	
Power requirements	AC 220v to 240V ±10%, 50Hz	
Power consumption	3.5W	
Operating temperature	-10 to 50°C (14 to 122°F)	
Storage temperature	-40 to 60°C (-40 to 140°F)	

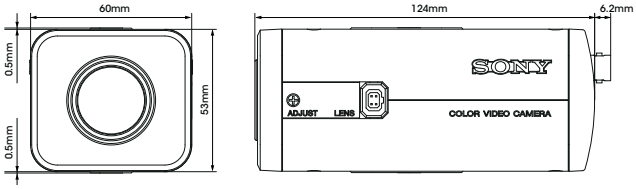
SSC-E433P / SSC-E438P

Low voltage, 1/3-type Super HAD™ CCD II colour video camera.

Features and Benefits

- **1/3-type Super HAD™ CCD II.** Very high resolution, high sensitivity images in all lighting conditions
- **Day/night function.** Mechanical ICR filter provides excellent b/w images in lowlight conditions
- **Automatic backlight compensation.** Provides image clarity under extreme background lighting conditions

Dimensions



Specifications

Camera	SSC-E433P	SSC-E438P
Image device	1/3-type Super HAD CCD II	
Number of effective pixels (HxV)	752 x 582	
Electronic shutter	ON/OFF, 1/50 to 1/100,000 switchable	
Auto gain control (AGC)	TURBO/OFF switchable	
Exposure control	(BLC) ON/OFF switchable	
White balance modes	Auto White Balance (ATW)	
Lens mount	CS Mount	
Interface		
Analogue connectivity	1.0Vp-p, 75Ω, sync negative	
Analogue video output		
Video system	PAL standard Internal/Line Lock	
Horizontal resolution	540 TV lines	
S/N ratio	Better than 50dB (AGC OFF, WEIGHT ON)	
Sensitivity colour	0.4lx at F1.2 (50IRE, AGC ON)	
Sensitivity monochrome	0.05lx at F 1.2 (50IRE, AGC ON)	
General		
Weight	390g (14oz)	410g (14oz)
Dimensions (W x H x D)	60 x 53 x 124mm	
Power requirements	AC 24V +10%, 50Hz or DC 12V +10%	AC 220V to 240V +10%, 50Hz
Power consumption	4.0W	
Operating temperature	-10 to 50°C (14 to 122°F)	
Storage temperature	-40 to 60°C (-40 to 140°F)	
Supplied Accessories		
	Lens Mount Cap x1, Operating Instructions x1, Wire Rope x1, Screw x1	

SSC-E473P

CS-Mount colour high resolution type with day/night function.

Key Features and Benefits

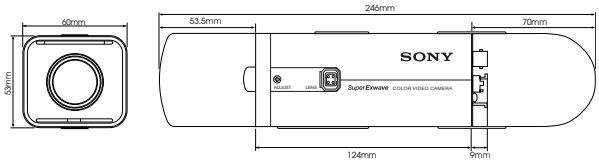
1/3-type CCD with SuperExwave™ technology. Very high resolution, high sensitivity images in all lighting conditions

Day/night function. Mechanical ICR filter provides excellent b/w images in lowlight conditions

Standard Features and Benefits

- **Wide range CCD IRIS.** Allows use of manual iris lens by automatically adjusting image exposure under varied lighting

Dimensions



Specifications

Camera	
Image device	1/3-type Interline Transfer CCD
Number of effective pixels (HxV)	752 x 582
Electronic shutter	1/50 to 1/100,000s (8 steps) OFF/MANUAL/CCD IRIS selectable
Auto gain control (AGC)	OFF/MANUAL/NORMAL/TURBO selectable
Exposure control	ON/OFF switchable
White balance modes	ATW / ATW Pro
Lens mount	CS Mount
Interface	
Analogue connectivity	1.0Vp-p; BNC (1) 75Ω, sync. negative
Analogue video output	
Video system	PAL Internal/External
Horizontal resolution	540 TVL
S/N ratio	More than 50dB (AGC OFF, weight ON)
Sensitivity colour	0.55lx at F1.2 (50IRE, AGC Turbo ON)
Sensitivity monochrome	0.05lx at F1.2 (50IRE, AGC Turbo ON)
General	
Weight	380g (13oz)
Dimensions (W x H x D)	60 x 53 x 124mm (without front and rear covers)
Power requirements	AC 24V ±10% at 50Hz or DC 12V ±10%
Power consumption	4.0W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
Supplied Accessories	
	Lens Mount Cap x1, Operating Manual x1, Front Cover x1, Rear Cover x1, Screws x2

SSC-E478P

CS-Mount colour high resolution type with day/night function.

Features and Benefits

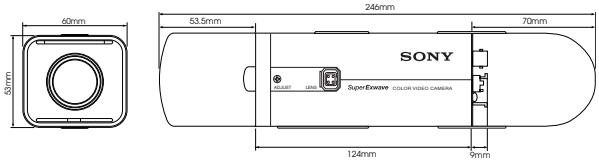
1/3-type CCD with SuperExwave™ technology. Very high resolution, high sensitivity images in all lighting conditions

Day/night function. Mechanical ICR filter provides excellent b/w images in lowlight conditions

Standard Features and Benefits

- **Wide range CCD IRIS.** Allows use of manual iris lens by automatically adjusting image exposure under varied lighting

Dimensions



Specifications

Camera	
Image device	1/3-type CCD with SuperExwave technology
Number of effective pixels (HxV)	752 x 582
Electronic shutter	ON/OFF, 1/60 to 1/100,000 switchable
Auto gain control (AGC)	TURBO/OFF switchable
Exposure control	(BLC) ON/OFF switchable
White balance modes	Auto White Balance Pro (ATW Pro) Auto White Balance (ATW)
Lens mount	CS Mount
Interface	
Analogue connectivity	BNC, 1.0Vp-p; 75Ω, sync. negative
Analogue video output	
Video system	PAL standard Internal/Line Lock
Horizontal resolution	540 TV lines
S/N ratio	Better than 50dB (AGC OFF, WEIGHT ON)
Sensitivity colour	0.55lx at F1.2 (50IRE, AGC ON, Turbo mode)
Sensitivity monochrome	0.05lx at F1.2 (50IRE, AGC ON, Turbo mode)
General	
Weight	400g (14oz)
Dimensions (W x H x D)	60 x 53 x 124mm (without front/rear cover)
Power requirements	AC 220V to 240V ±10%, 50Hz
Power consumption	4.0W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
Supplied Accessories	
	Lens Mount Cap x1, Operating Manual x1, Front Cover x1, Rear Cover x1, Screws x2

SSC-G923 / SSC-G928

Delivering the highest resolution images in all lighting conditions and with a powerful array of unique and added value features and technology, the SSC-G923 and SSC-G928 from Sony represent the very latest in fixed camera technology.

Key Features and Benefits

Latest 1/3" Super HAD™ CCD II sensor. The very latest sensor technology delivers superior image performance for ultra lowlight and extended IR applications

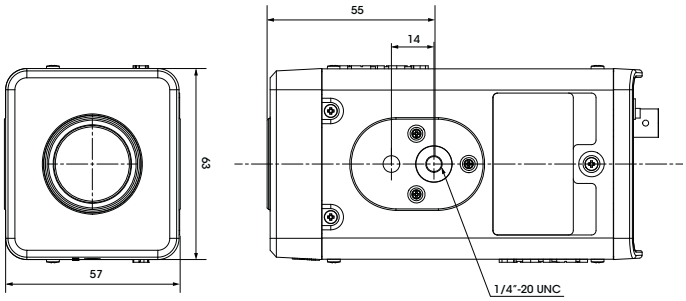
Ultra wide dynamic range capability with new DynaView EX technology. New, enhanced wide dynamic range technology delivers advanced three stage processing to provide the optimum imaging performance in the most challenging lighting conditions

Unique intelligent Face Detection function. Using an intelligent and face detection library, the camera can be used to detect a facial image and output an appropriate detection alarm. Combining this unique feature with an access control or detection system adds a powerful verification function and delivers significant benefits and added value to new and existing security systems

Standard Features and Benefits

- **650 TVL resolution.** Highest image resolution for the optimum in image quality
- **Mechanical IRC filter.** Perfect for use in lowlight and extended IR applications
- **Adaptive DNR (Digital Noise Reduction).** Utilises advanced 2D and 3D filter technology to greatly reduce noise, providing superior image quality and detail in lowlight conditions

Dimensions



Specifications

Camera	SSC-G923	SSC-G928
Image Device	1/3 type Interline Transfer CCD with DynaViewEX technology	
Picture Elements	976(H) x 582(V)	
Auto Iris Lens	DC servo or VIDEO servo Auto	
VIDEO Level	Variable	
AGC	OFF/Normal/Turbo/MANUAL	
Shutter	1/50 to 1/100,000 (12 steps) OFF/MANUAL/CCD-IRIS selectable	
BLC	OFF/DynaViewEX/iBLC/SPOT	
Dynamic Range	More than 75dB measured by JEITA method	
Minimum Illumination	Colour: 0.22 lx at F1.2 (50 IRE, AGC ON, Turbo mode) 0.11 lx at F1.2 (30 IRE, AGC ON, Turbo mode) B/W: 0.06 lx at F1.2 (50 IRE, AGC ON, Turbo mode) 0.03 lx at F1.2 (30 IRE, AGC ON, Turbo mode)	
Analogue video output		
Signal System	PAL standard	
Horizontal Resolution	650 TVL	
S/N	Better than 50dB (AGC OFF)	
Variable Gamma	OFF/SCENE1/SCENE2/SCENE3/SCENE4 selectable	
White Balance	ATW/ATW-PRO/3200K/5600K/Manual	
Sharpness	SOFT/NORMAL/SHARP	
Colour Saturation	L to H (4 steps)	
Optical Day/Night	Auto/External/Colour/B/W selectable	
Activity Detection	ON/OFF selectable	
Face Detection	ON/OFF selectable	
Privacy Masking	ON/OFF selectable (with area setting function)	
Camera Title	Up to 24 characters (Alphabet, Arabic numeral and some marks) ON/OFF selectable (with 4 prepositions)	
User Preset	A/B Reset selectable	
Custom Templates	ENTRANCE/OFFICE/PARKIING/SUBWAY/LOBBY/STATION	
Flip	OFF/VERT/HORIZ/BOTH selectable	
Digital Noise Reduction	L to H (5 steps)	
Slow Shutter	FF/X2/X4/X8/X16/X32/X64/X128/X256/X512	
Back Focus Adjustment	YES	
Synch System	Internal/AC line lock selectable	
RS-485 Address	1-255	
General		
Weight	400g	420g
Dimensions	W:63×H:57×L:129.1mm	
Operating Temperature	-10 to +50°C	
Storage Temperature	-40 to +60°C	
Operating Humidity	20 to 80%	
Storage Humidity	20 to 95%	
Power Requirement	DC 12 V ±10% or AC 24 V +10% -40%, 50 Hz	AC 220 V-240 V ±10%, 50 Hz
Power Consumption	2.8W	3.5W
Supplied Accessories		
	Operating instructions	
	Menu operations	
	Fall-prevention wire rope	
	Screw	
	Lens mount cap	
	AC power cable (AC 220 V to 240 V only)	

SSC-G813 / SSC-G818

Delivering excellent picture quality and user-friendly features, the SSC-G803 and SSC-G808 are the perfect choice for many surveillance applications.

Key Features and Benefits

1/2 –Exwave HAD™ technology. Very high resolution, high sensitivity images in all lighting conditions

Day/night function. Automatically provides monochrome images under lowlight conditions

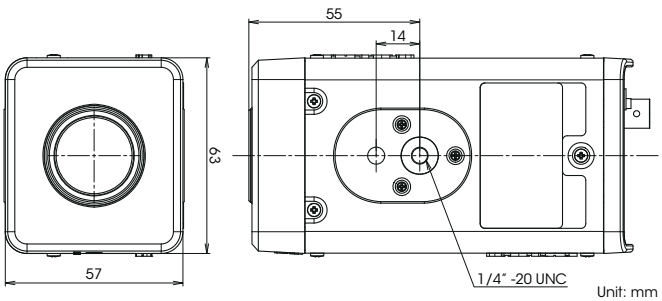
Automatic backlight compensation. Offers excellent reproduction in varying levels of Illumination

Unique intelligent Face Detection function. Using an intelligent and face detection library, the camera can be used to detect a facial image and output an appropriate detection alarm. Combining this unique feature with an access control or detection system adds a powerful verification function and delivers significant benefits and added value to new and existing security systems

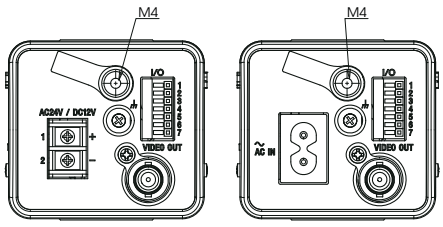
Standard Features and Benefits

- **Adaptive DNR (Digital Noise Reduction).** Utilises advanced 2D and 3D filter technology to greatly reduce noise, providing superior image quality and detail in lowlight conditions
- **Auto CCD Iris function.** Provides image clarity under extreme background lighting conditions

Dimensions



Unit: mm



SSC-G813 SSC-G818

Specifications

Camera	SSC-G813	SSC-G818
Image Device	1/2-type CCD with Exview HAD technology	
Picture Elements	752 x 582 (H x V)	
Auto Iris Lens	DC servo or VIDEO servo auto	
VIDEO Level	Variable	
AGC	OFF/Normal/Turbo/Manual	
Shutter	1/50 sec to 1/100,000 sec (12 steps), OFF/MANUAL/CCD-IRIS selectable	
BLC	OFF/iBLC/SPOT	
Minimum Illumination	Color: 0.28 lx at F1.2 (50 IRE, AGC ON, Turbo mode), B/W: 0.005 lx at F1.2 (50 IRE, AGC ON, Turbo mode)	
Digital zoom	OFF/x2/x4/x8/x16	
Analogue video output		
Signal System	PAL standard	
Horizontal Resolution	540 TV lines	
S/N	Better than 57 dB (AGC OFF)	
Variable Gamma	OFF/SCENE1/SCENE2/SCENE3/SCENE4 selectable	
White Balance	ATW/ATW-PRO/3200K/5600K/Manual	
Sharpness	SOFT/NORMAL/SHARP	
Colour Saturation	L to H (4 steps)	
Optical Day/Night	Auto/External/Color B/W selectable	
Activity detection	ON/OFF selectable	
Face detection	ON/OFF selectable	
Privacy Masking	ON/OFF selectable (with area setting function)	
Camera Title	Up to 24 characters (Alphabet, Arabic numeral and some marks, and Simplified Chinese character),ON/OFF selectable (with 4 prepositions)	
User Preset	A/B Reset selectable	
Custom Templates	ENTRANCE/OFFICE/PARKING/SUBWAY/LOBBY/STATION	
Flip	OFF/VERT/HORIZ/BOTH selectable	
Digital Noise Reduction	L to H (5 steps)	
Slow Shutter	OFF/x2/x4/x8/x16/x32/x64/x128/x256/x512	
Back Focus Adjustment	YES	
Synch System	Internal/AC line lock selectable	
RS-485 address	1-255	
General		
Weight	400 g	420 g
Dimensions	W:63×H:57×L:124mm	
Operating Temperature	-10°C to +50°C	
Storage Temperature	-40°C to +60°C	
Operating Humidity	20% to 80%	
Storage Humidity	20% to 95%	
Power Requirement	DC 12 V ±10% or AC 24 V +10% to -40%, 50 Hz	220-240VAC ±10%, 50Hz
Power Consumption	2.8 W	3.1 W

SSC-CD13VP

A fixed indoor mini dome camera offering high performance in a competitive package.

Key Features and Benefits

1/4 type Super HAD™ CCD. High resolution image capture with lowlight performance

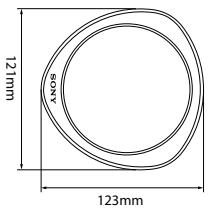
Automatic backlight compensation. Meets a wide range of viewing angle requirements under varying lighting conditions

Standard Features and Benefits

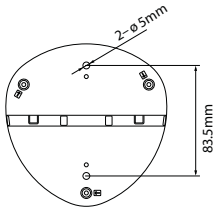
- **3.0 – 8mm vari-focal lens with Auto Iris capability.** CS lens options offer the maximum flexibility to match installation requirements
- **Optional interchangeable lens options available.** High performance image capture in high contrast scene conditions
- **Easy installation with four different mounting styles.** Wide range of mounting options allows ease of installation and mounting flexibility
- **Flexible AC and DC power requirements.** Flexible power options via automatically sensing of 12VDC or 24VAC power supplies

Dimensions

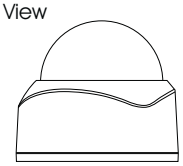
Top View



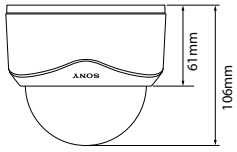
Rear View



Side View



Front View



Specifications

Camera	
Image device	1/4 type Super HAD CCD
Number of effective pixels (HxV)	752 x 582
Electronic shutter	1/50 to 1/100,000 sec (when using manual iris lens)
Auto gain control (AGC)	Turbo AGC/OFF switchable
Exposure control	BLC - ON (Centre measured) / OFF switchable
White balance modes	ATW, 2,200K to 10,000K
Lens type	Auto iris vari-focal lens
Lens mount	CS Mount
Horizontal viewing angle	W=84.7° (D), 66.6° (H), 49.3° (V). T=33.6° (D), 26.9° (H), 20.1° (V)
Focal length	f=3.0 to 8.0mm
F-number	F1.0
Minimum object distance	0.2m
Interface	
Analogue connectivity	BNC, 1.0Vp-p, 75Ω, sync negative. Internal or AC line lock (for AC 24V)
Analogue video output	
Video system	PAL
Horizontal resolution	480 TV lines
S/N ratio	More than 50dB (AGC OFF, Weight ON)
Sensitivity colour	0.4lx at F1.0 (30IRE, AGC ON) 0.8lx at F1.0 (50IRE, AGC ON)
General	
Weight	Approx. 440g (16oz)
Dimensions (W x H x D)	121 x 106 x 123mm
Power requirements	AC 24V ±10% or DC 12V ±10 %
Power consumption	3.3W
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	Operating instructions(1), Dome Cover Screw(1)

SSC-CD45P

This compact and discreet analogue mini-dome camera delivers superior indoor security and surveillance monitoring with features such as a 1/3-type Super HAD CCD.

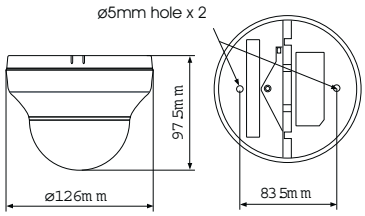
Key Features and Benefits

1/3-type Super HAD™ CCD. High resolution, high sensitivity images

Standard Features and Benefits

- **Sony-patented ball-joint lens mount mechanism.** Allows flexibility in camera positioning
- **Flexible and easy installation.** Simple yet flexible mounting options

Dimensions



Specifications

Camera	
Image device	CD77 Super HAD technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Auto gain control (AGC)	ON/OFF
Exposure control	Backlight Compensation ON/OFF
White balance modes	ATW (2,000K - 10,000K)/ATW Pro (2,500K - 6,500K)
Lens type	Auto iris vari-focal lens
Lens mount	Ball-Joint Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 . 10mm
F-number	F1.3 (Wide end), F3.0 (Tele end)
Minimum object distance	300mm
Interface	
Analogue connectivity	Composite video (1Vp-p). Line Lock/Internal
Analogue video output	
Video system	PAL
Horizontal resolution	540 lines
S/N ratio	More than 50dB (AGC OFF)
Sensitivity colour	0.9lx (50IRE, F1.3, AGC ON)
General	
Zoom ratio	x3.6 optical zoom (x1.5 digital zoom)
Weight	Approx. 440g
Dimensions (W x H x D)	126 x 97.5mm
Power requirements	AC 24V, DC 12V
Power consumption	4.0W max.
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	Operating Instructions, Template, M4 Shoulder Screw, Wire Rope

SSC-CD49P

The SSC-CD49P is a compact and discreet dome camera designed for indoor security and surveillance monitoring applications.

Features and Benefits

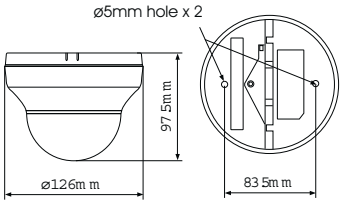
1/3-type CCD. High resolution, high sensitivity images under wide-ranging illumination conditions

DynaView™ technology. Provides excellent images under high contrast illumination conditions

Standard Features and Benefits

- **Wide dynamic range With DynaView™ technology.**
- **Sony patented Ball-Joint Lens Mount mechanism.** Allows flexible camera positioning
- **24V AC and 12V DC operation.** Flexible power supply options with auto voltage detect function
- **Easy mounting and installation.** Simple yet flexible mounting options

Dimensions



Specifications

Camera	
Image device	1/3-type CCD with DynaView Technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Auto gain control (AGC)	ON/OFF
Exposure control	DynaView ON/OFF (BLC)
White balance modes	ATW/ATW Pro
Lens type	Auto iris vari-focal lens
Lens mount	Ball-Joint Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω, RCA x1
Analogue video output	
Video system	PAL (Composite) AC Line Lock/Internal Lock
Horizontal resolution	480 TV lines
S/N ratio	More than 50dB (AGC ON/Weight ON)
Sensitivity colour	0.7lx (50IRE, F1.3, AGC ON)
General	
Zoom ratio	x3.6 optical zoom (x1.5 digital zoom)
Weight	Approx. 440g (15lb)
Dimensions (W x H x D)	Approx. 126 x 97mm
Power requirements	AC 24V/DC 12V
Power consumption	4.2W max.
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	CD-ROM (Setup Program and User's Guide), Wire Rope, Shoulder Screw M4, Installation Manual

SSC-CD73VP

Superior sensitivity, vandal-resistant, day/night fixed mini-dome camera.

Key Features and Benefits

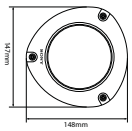
- **1/4-type Super HAD™ CCD.** High resolution, high sensitivity images
- **Day/night function.** Mechanical ICR filter provides excellent b/w images in lowlight conditions
- **IP66 rated with ruggedised design.** Ideal for use in outdoor conditions

Standard Features and Benefits

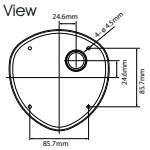
- **24V AC and 12V DC operation.** Flexible power supply options with auto voltage detect function
- **Easy mounting and installation.** Simple yet flexible mounting options

Dimensions

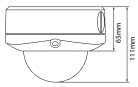
Top View



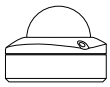
Rear View



Front View



Side View



Specifications

Camera	
Image device	1/4-type Super HAD CCD
Number of effective pixels (HxV)	752 x 582
Electronic shutter	1/50 to 1/100,000s (CCD IRIS)
Auto gain control (AGC)	Turbo AGC (up to 24dB)/OFF switchable
Exposure control	ON (Centre measured)/OFF switchable (BLC)
White balance modes	ATW, 2,000K to 10,000K
Lens type	Vari-focal auto iris lens
Lens mount	CS Mount
Horizontal viewing angle	(H) 66.6° (wide), 26.9° (tele) (V) 49.3° (wide), 20.2° (tele)
Focal length	f=3.0 to 8.0mm
F-number	F 1.0
Minimum object distance	0.2m
Interface	
Analogue connectivity	BNC, 1.0Vp-p, 75Ω, sync negative
Analogue video output	
Video system	PAL Internal or AC line lock (for AC 24V)
Horizontal resolution	480 TV lines
S/N ratio	More than 50dB (AGC OFF, Weight ON)
Sensitivity colour	0.4lx at F1.0 (30IRE, AGC ON). 0.9lx at F1.0 (50IRE, AGC ON)
Sensitivity monochrome	0.1lx at F1.0 (30IRE, AGC ON). 0.2lx at F1.0 (50IRE, AGC ON)
General	
Weight	Approx 1150g (2lb 10oz)
Dimensions (W x H x D)	Base: 147 x 111 x 148mm Bubble: 94mm
Power requirements	AC 24V/DC 12V (automatic switching)
Power consumption	3.6W
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	Screw x4, Operating Instructions, Monitor Cable x1, Screwdriver x1

SSC-CD75P

Vandal-resistant mini-dome camera for indoor or outdoor use with a 1/3-type Super HAD CCD that provides high sensitivity levels and picture quality.

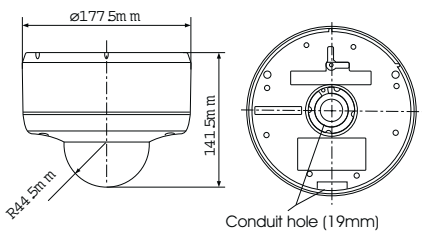
Features and Benefits

- **1/3-type CCD with Super HAD™ Technology.** High resolution, high sensitivity images
- **IP66 rated with ruggedised design.** Ideal for use in outdoor conditions
- **Additional analogue output.** Allows simple access to set-up video images during installation

Standard Features and Benefits

- **24V AC and 12V DC operation.** Flexible power supply options with auto voltage detect function
- **Easy mounting and installation.** Simple yet flexible mounting options

Dimensions



Specifications

Camera	
Image device	1/3-type CCD with Super HAD Technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Auto gain control (AGC)	ON/OFF (switchable)
Exposure control	ON/OFF (BLC)
White balance modes	ATW/ATW Pro
Lens type	Auto iris vari-focal lens
Lens mount	Ball Joint Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω, RCA x1
Analogue video output	
Video system	PAL (Composite) AC Line Lock/Internal Lock
Horizontal resolution	540 TV lines
S/N ratio	More than 50dB (AGC ON/Weight ON)
Sensitivity colour	0.9lx (50IRE, F1.3, AGC ON)
General	
Zoom ratio	x3.6 optical zoom (x1.5 digital zoom)
Weight	Approx 1.75kg (3lb 11oz)
Dimensions (W x H x D)	Approx. 177 x 141mm
Power requirements	AC 24V/DC 12V
Power consumption	4W max. (16W with heater option)
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	Bracket x1, Template x1, Torx Wrench x1, M4 Screws x4, Wire Rope x1, M4 Shoulder Screw x1, Operating Instructions

SSC-CD77P

Superior sensitivity, vandal-resistant, day/night fixed mini-dome camera with SuperExwave technology.

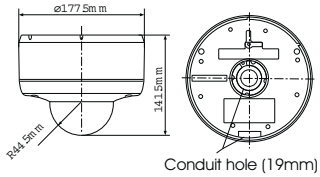
Key Features and Benefits

- **1/3-type CCD with SuperExwave™ technology.** Very high resolution, high sensitivity images in all lighting conditions
- **Day/Night function.** Mechanical ICR filter provides excellent b/w images in lowlight conditions
- **IP66 rated with ruggedised design.** Ideal for use in outdoor conditions

Standard Features and Benefits

- **Sony-patented Ball-Joint Lens Mount mechanism.** Allows flexible camera positioning

Dimensions



Conduit hole (19mm)

Specifications

Camera	
Image device	1/3-type Super Exwave Technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Auto gain control (AGC)	ON/OFF
Exposure control	ON/OFF (BLC)
White balance modes	ATW/ATW Pro
Lens type	Auto iris vari-focal lens
Lens mount	Ball-Joint Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
F-number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300mm
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω, RCA x1
Analogue video output	
Video system	PAL (Composite) AC Line Lock/Internal Lock
Horizontal resolution	540 TV lines
S/N ratio	More than 50dB (AGC ON, weight ON)
Sensitivity colour	0.6lx (50IRE, F1.3, AGC ON) B&W : 0.06lx (50IRE, F1.3, AGC ON)
General	
Zoom ratio	x3.6 optical zoom (x1.5 digital zoom)
Weight	Approx 1.75kg (3lb 11oz)
Dimensions (W x H x D)	Approx. 177 x 141mm
Power requirements	AC 24V/DC 12V
Power consumption	4W max. (16W with heater option)
Operating temperature	-20 to 50°C (-4 to 122°F), -40 to 50°C (-40 to 122°F) with heater unit
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	Bracket x1, Template x1, Torx Wrench x1, M4 Screws x4, Wire Rope x1, M4 Shoulder Screw x1, Operating Instructions

SSC-CD79P

Vandal-resistant mini-dome camera designed for either indoor or outdoor use. Incorporates DynaView technology, providing clear images even in extreme high-contrast environments.

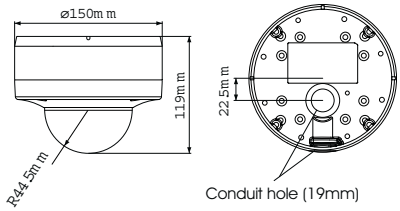
Features and Benefits

- **1/3-type CCD with DynaView™ technology.** High resolution, high sensitivity images under wide-ranging illumination conditions
- **Day/Night function.** Mechanical ICR filter provides excellent b/w images in lowlight conditions
- **IP66 rated with ruggedised design.** Ideal for use in outdoor conditions

Standard Features and Benefits

- **Wide dynamic range with DynaView technology.** Provides excellent images under high contrast illumination conditions

Dimensions



Conduit hole (19mm)

Specifications

Camera	
Image device	1/3-type CCD with DynaView Technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	Auto
Auto gain control (AGC)	ON/OFF
Exposure control	ON/OFF (BLC)
White balance modes	ATW/ATW Pro
Lens type	Auto iris vari-focal lens
Lens mount	N/A
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
F-number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300mm
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω, RCA x 1
Analogue video output	
Video system	PAL (Composite) AC Line Lock/Internal Lock
Horizontal resolution	480 TV lines
S/N ratio	More than 50dB (AGC ON, weight ON)
Sensitivity colour	0.7lx (50IRE, F1.3, AGC ON)
General	
Weight	Approx 1.3kg
Dimensions (W x H x D)	Approx. 150 x 119mm
Power requirements	AC 24V/DC 12V
Power consumption	4W max
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	Bracket x1, Template x1, Torx Wrench x1, M4 Screws x4, Wire Rope x1, M4 Shoulder Screw x1, Operating Instructions

SNT-EX/EP Series

Offering single channel, four channel and highly flexible and scalable blade solutions, the SONY SNT–EX/EP series delivers a unique encoding concept which adds significant value and performance advantages not previously available to traditional analogue camera systems. By simply adding SNT-EX/EP encoders to an existing analogue system, users can immediately benefit from Sony's unique image-enhancing and advanced analytics technology. Converting analogue video signals into digital video streams for transmission via IP-based networks, the SNT-EX/EP encoders offer unrivalled network flexibility coupled with D1 resolution support.

Key Features

- D1 resolution support
- XDNR noise reduction technology
- Visibility Enhancer
- DFI (Dynamic Frame Integration)
- DEPA Advanced analytics
- Triple codec support
- Advanced audio detection
- Voice alert
- Versatile telemetry interface
- External storage solutions
- Onvif support

Benefits

- Delivers the highest possible image quality
- Existing analogue cameras benefit from noise and ghost-free images with superior sensitivity in lowlight conditions
- Enhanced wide dynamic range improves performance for existing analogue cameras in challenging lighting conditions
- Produces superior images from dynamic scenes containing both still and moving objects
- Advanced, powerful intelligent video analytics deliver enhanced system performance to existing analogue systems
- Delivers flexible image compression formats to overcome bandwidth limitations. The encoders generate JPEG/MPEG and H.264 images at 30FPS.
- Monitors and stores ambient audio levels to deliver highly accurate audio alarm triggering
- Stores up to three pre-recorded messages which may be replayed via manual or alarm activation
- Flexible support for third-party telemetry cameras via RS-422, RS-485 and Coaxitron interfaces
- Continuous, pre-and post-event recording may be stored using USB memory devices
- Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Peripherals

SNT-RS3U
3U rack station, houses up to 12 SNT-EX/EP154 blade encoders to provide a maximum of 48 analogue input channels

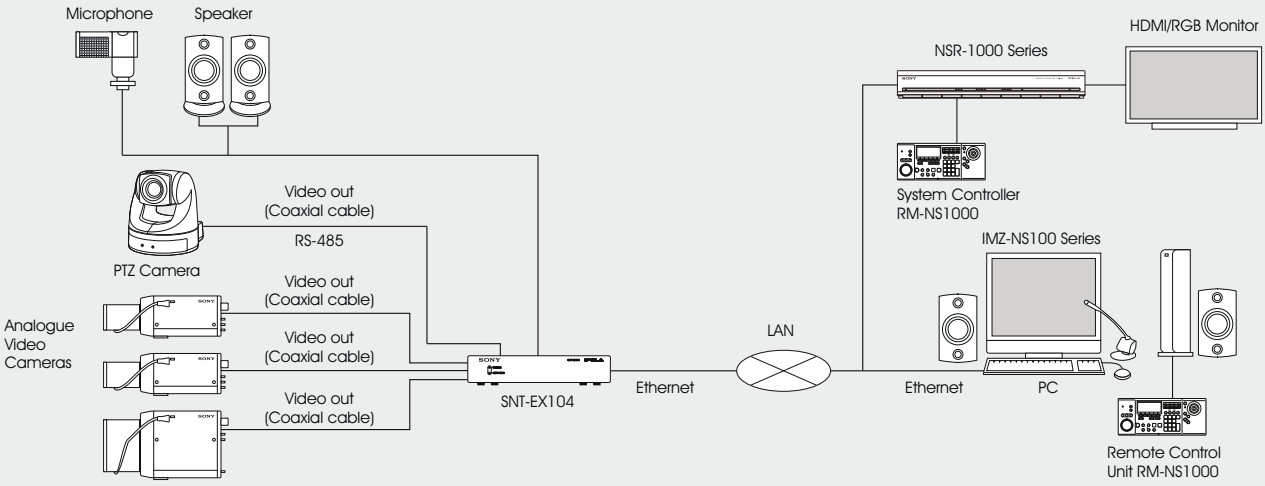
SNT-RS1U
3U rack station, houses up to 4 SNT-EX154/EP154 blade encoders to provide a maximum of 16 analogue input channels.

Optional Accessories

SNTA-RP1
Rack station power supply unit, provides a redundant power supply system for the SNT-RS1U

Configurations

System Configuration



Sony's unique XDNR (eXcellent Dynamic Noise Reduction),VE (Visibility Enhancer), DFI (Dynamic Frame Integration) technology and DEPA Advanced (Distributed Enhanced Processing Architecture), combine with RS-485 and Coaxitron telemetry options to deliver superior image quality, powerful video and audio analytics and advanced telemetry support to existing analogue systems. Delivering advanced features, superior image quality from existing analogue video signals and the significant benefits of intelligent video and audio analytics, the SONY SNT-EX/EP series encoders are the obvious choice when migrating from an existing analogue system, to an IP based surveillance solution.

Specifications

	SNT-EX101	SNT-EX101E	SNT-EX104	SNT-EP104	SNT-EX154	SNT-EP154
Encoder Features						
Visibility enhancer	Yes					
XDNR	Yes					
Coaxitron control	Yes			No	Yes	No
Interface						
Analogue video input	x1		x4			
Composite buffered throughout	x1		–			
Ethernet	10Base-T/100Base-TX (RJ-45)					
Serial interface	RS-422/RS-485		RS-485	–	RS-485	–
USB Memory slots	x1		x4	–		
Sensor input	x2		x4	–	x4	–
Alarm output	x2		x4	–	x4	–
Audio interface (IN/OUT)	IN x1, OUT x1		IN x4, OUT x4	–	IN x1, OUT x1	–
External microphone input	Mini-jack (monaural), MIC IN/LINE IN: oover 2.2kohm, 2.45VDC plug-in power			–	Mini-jack (monaural), MIC IN/LINE IN: over 2.2kohm, 2.45VDC plug-in power	–
Audio line output	Mini-jack (monaural), Max output level: 1,5Vp-p			–	Mini-jack (monaural), Max output level: 1,5Vp-p	–
Image						
Codec image size (HxV)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)					
Video compression format	H.264, MPEG-4, JPEG					
Maximum frame rate	H264/MPEG-4/JPEG: 30 fps (NTSC: 720 x 480, PAL: 720 x 576)					
Audio						
Audio compression	G.711/G.726		G.711/G.726	–		–
Scene Analytics						
Intelligent motion detection	Yes (with built-in Post Filter)			No	Yes (with built-in Post Filter)	No
Motion detection	No			Yes	No	Yes
Advanced audio detection	Yes			No	Yes	No
Network						
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP. IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MB-2)					
Number of clients	10					
Authentication	IEEE802.1X					
Number of IP address/Mac address	x1		x4			
General						
Weight	Approx. 0.4kg (14 oz)		Approx. 1.4kg (2 lb 3 oz)	Approx. 1.3kg (2 lb 3 oz)	Approx. 0.4kg (14 oz)	
Dimensions (W x H x D)	73 x 34 x 155 mm 2 7/8 x 1 3/8 x 6 1/8 inches)		210 x 44 x 250 mm 8 3/8 x 1 3/4 x 9 7/8 inches)		78 x 34 x 382 mm 3 1/8 x 1 3/8 x 15 1/8 inches)	
Power requirements	AC 24V (In ±20%, Out)	PoE (802.af)	DC 12V		From Rack Station	
Power consumption	9.6W max.		14.4W max.	12W max.		
Operating temperature	0 to 50°C		0 to 45°C			
Storage temperature	-20 to 60°C					
System requirements						
Operating system	Microsoft Windows Vista®					
Processor	Intel® Core™2 Duo, 1.8GHz or higher.					
Memory	1GB or more					
Web browser	Microsoft Internet Explorer Ver. 6.0, Ver. 7.0					
Supplied Accessories						
	CD-ROM (User's Guide and supplied programs) (1), Installation Manual (1), B&P Warranty Booklet (1), I/O port connector (1), 24V AC connector (1), Attachment brackets (4), Attachment screws (8)		CD-ROM (User's Guide and supplied programs) (1), Installation Manual (1), B&P Warranty Booklet (1), AC adaptor (AC-NB 12A) (1), Power cord (1), I/O port connector (SNT-EX104 only) (1)		Installation Manual (1), B&P Warranty Booklet (1), I/O port connector (Only SNT-EX154) (1), Attachment screws (2)	

IMZ-NS100 Series

Real Shot Manager Advanced: simple, flexible, powerful and scalable – HD-ready Intelligent Monitoring Software from Sony Professional.

Key Features

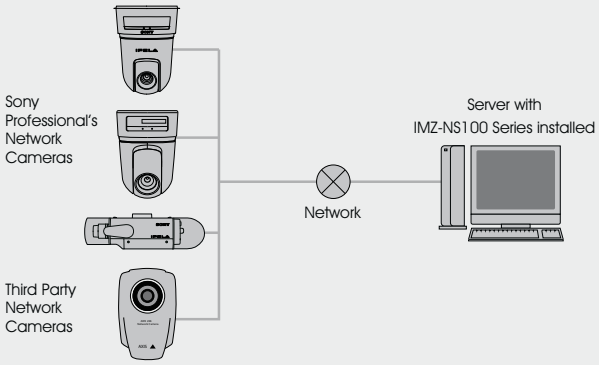
- Easy to use and understand graphical user interface
- Automatic camera registration
- Simple yet powerful recording capabilities
- Advance image search functions
- Hot spot monitoring function
- Flexible custom screen layouts
- Totally scalable with multiple camera options
- Open platform

Benefits

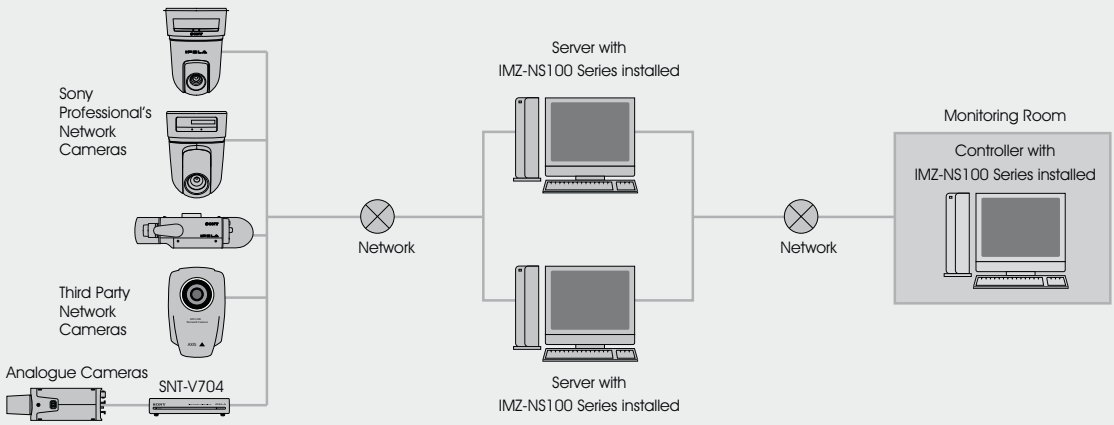
- Minimal operator training required
- Quick and easy set up of Sony IP cameras
- Manual, event and scheduled recording available
- Locate required images quickly and easily
- Provides detailed view for area of interest
- Allows user defined graphical interface options
- System expansion to meet your requirement via IMZ-NS101, NS104, NS109 and NS116, 1, 4, 9 and 32 channels options
- Powerful system flexibility via support of third-party IP cameras

Configurations

Standalone Configuration



Client-Server Configuration



Intelligent search functions

Specifications

System Requirements		
Operating system *1	Microsoft® Windows Vista® Business Microsoft Windows Vista Enterprise Microsoft Windows® XP Professional SP2 Microsoft Windows Server 2003 Standard Edition SP2	
CPU	Intel® Core™ 2Duo 2.0-GHz or higher	
Main memory	1 GB or more	
HDD 2	10GB spare capacity (or more depending on the video that is to be stored)	
Video card	1024 x 768, 16/24 bit colour	
Network interface card (NIC)	100BASE-TX or higher	
Display (Resolution)	1024 x 768 or higher	
Specifications	**Server**	**Client**
Video compression	JPEG/MPEG-4	JPEG/MPEG-4
Audio compression	G711/G726	G711/G726
Number of cameras to be connected *2	32	—
Number of clients to be connected *3	10	—
Maximum number of layouts	100	100
Maximum number of users	100	100
Maximum number of servers to a client *4	—	64

*1 x 64 edition is not supported.
*2 This is a recommended value to assure high performance. It is technically possible to connect more than 32 units by installing on the PC a corresponding number of licences. Display/recording performance basically depends on PC performance, but an increase in cameras may deteriorate overall performance.
*3 This is a recommended value to assure high performance. It is technically possible to connect more than 10 clients, but this increase may deteriorate overall performance.
*4 This is a recommended value to assure high performance. It is technically possible to connect more than 64 servers, but this increase may deteriorate overall performance.

Easy-to-use monitoring functions

Double-clicking a Frame

Hot spot monitoring/Dual monitor support

RSM Advanced Series software packages

IMZ-NS101
Control PC software for one networked video source.

IMZ-NS104
Control PC software for up to four networked video sources.

IMZ-NS109
Control PC software for up to nine networked video sources.

IMZ-NS116
Control PC software for up to 16 networked video sources.

IMZ-NS132
Control PC software for up to 32 networked video sources images to be searched quickly.

NSR-1000 Series

The NSR 1000 series offers a highly scalable range of hybrid network recording solutions. Simplified operation and set up coupled with an open platform offers the maximum in flexibility and ease of use.

Key Features

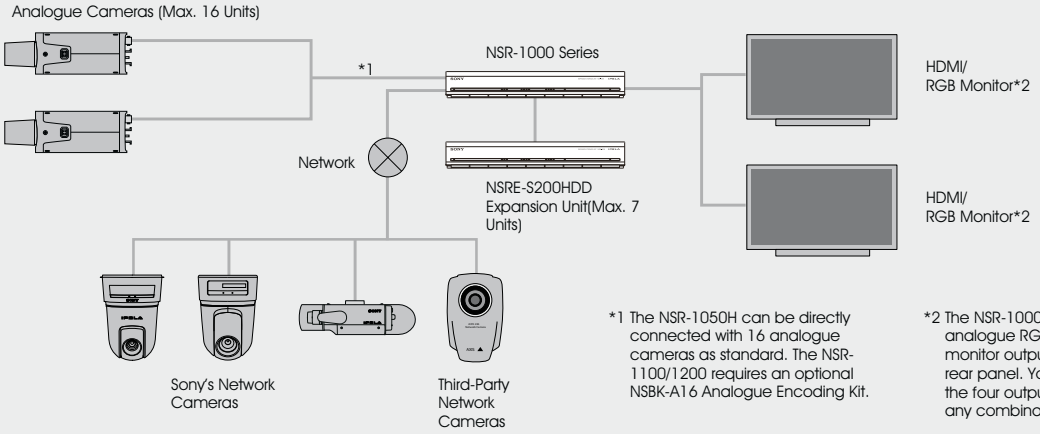
- MPEG-4/JPEG dual stream
- DEPA compatible
- HDMI outputs
- Additional storage of 2TB x 7
- Remote viewing by controller software
- IMZ-NS100 Series compatible
- Flexible hybrid connectivity and recording

Benefits

- View images in full HD, when using Sony megapixel cameras
- Capable of encoding dual streams simultaneously
- Advanced video analytics capability
- Up to 11TB of additional storage in raid 5 mode. Optional NSRE-S200 storage accessories will be required
- Remote control and viewing via bundled software
- Capability of remote control of network cameras and NSR1000 via IMZ-NS100 series software
- Can record and display both analogue and IP cameras offering the maximum in flexibility and migration capability

Configurations

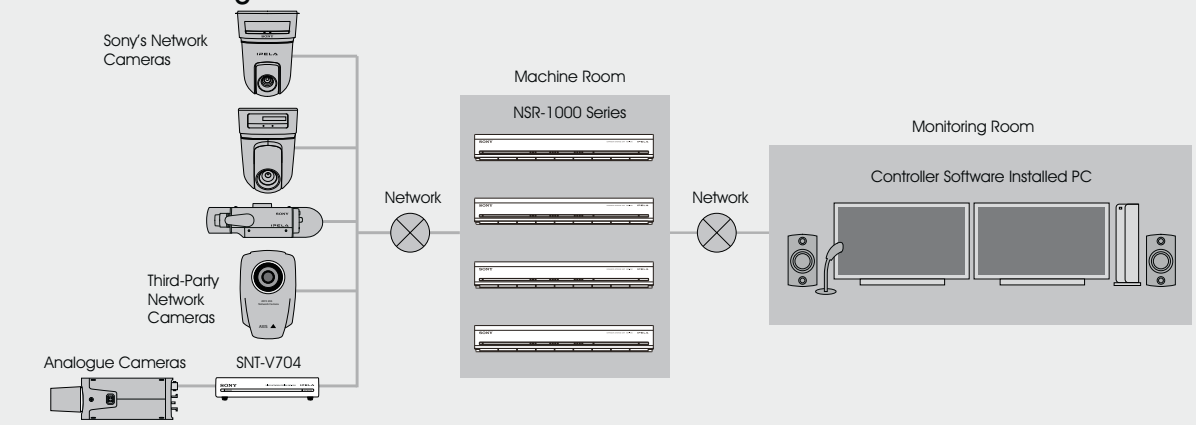
Standalone Configuration



*1 The NSR-1050H can be directly connected with 16 analogue cameras as standard. The NSR-1100/1200 requires an optional NSBK-A16 Analogue Encoding Kit.

*2 The NSR-1000 Series has two analogue RGB and two HDMI monitor output connectors on the rear panel. You can use two out of the four outputs simultaneously in any combination.

Client-Server Configuration



Specifications

Video/Recording		NSR-1200	NSR-1100	NSR-1050H
Number of Cameras Supported (IP/Analogue Total)		Max. 64	Max. 32	Max. 20
Analogue Camera Input		Option (NSBK-A16)		16ch Video Input/ 4ch Audio Input (Supplied Cable)
Video Compression (IP-Camera)		H.264/MPEG-4/JPEG		
Video Compression (Analogue-Camera)		MPEG-4		MPEG-4
Maximum Recording Rate		480fps	240fps	120fps
Hard Disk Drives (Physical Capacity)		2000GB (500GB x4)	1000GB (500GB x2)	500GB (500GB x1)
Hard Disk Drives (RAID Level)		RAID 5	RAID 0	–
Hard Disk Drives (Recording Capacity)		1366GB	886GB	443GB
Expansion Storage		Supports NSRE-S200 (2000GB) (Max. 7 Units)		
Video Interface				
Monitor Out #1 (HDMI or Analogue)	HDMI Output	HDMI (A-type) x1		
	Analogue RGB Output	D-sub 15pin x1 (Front) or D-sub 15pin x1 (Rear) *2		
Monitor Out #2 (HDMI or Analogue)	HDMI Output	HDMI (A-type) x1		
	Analogue RGB Output	D-sub 15pin x1		
Audio Interface				
Line Out		RCA-pin, L/R x1 stereo pair		
Sensor/Alarm				
Sensor In		8-channel photo-coupler (DC3.3-24V)		
Alarm Out		8-channel relay (Max. 24V 1A)		

Other Interfaces	NSR-1200	NSR-1100	NSR-1050H
Ethernet *1	1000Base-T/100Base-TX/10Base-T x4 (Auto switching)		
USB 2.0	x3 (Front), x3 (Rear)		
Serial Interface (for UPS)	RS-232C x1		
Serial Interface (for Analogue Camera Control)	RS-232C x1, RS-422/485 x1 (Either one to be selected)		
SAS 1.1 (Serial Attached SCSI)	SFF-8088 type x1		
General			
Dimensions (W x H x D)	430mm x 87mm x 417mm (17 x 3 1/2 x 16 1/2 inches) (exclusive projections)		
Mass	Approx. 13.5kg (29lb 12oz)	Approx. 12kg (26lb 7oz)	Approx. 11.5kg (25lb 6oz)
Power Requirements	100V to 127V/200V to 240V AC (50/60Hz)		
Power Consumption	265W (typical)	185W (typical)	175W (typical)
Operating Temperature	5 to 40°C (41 to 104°F)		
Operating Humidity	10 to 80% (Max. wet-bulb temperature 30°C, non-condensing)		
Supplied Accessories	Analogue Camera Cable x1 (NSR-1050H Only), Front panel key x2, Rubber Feet x4, Recovery CD x1, Manual/Tool/Source Codes CD x1		
Supported Languages	English, German, French, Spanish, Italian, Chinese, Japanese, Russian.		

*1 Port #1 to #3 can be used as ordinary LAN ports. Port #4 cannot be used alone. Channel Bond is supported by #3 and #4.
*2 The D-sub 15-pin (Front) and D-sub 15-pin (Rear) Connectors cannot be used simultaneously.

Storage Capacity	NSR-1200
Hard Disk Drives (Physical Capacity)	2000GB (500GB x4)
Hard Disk Drives (RAID Level)	RAID 5
Hard Disk Drives (Recording Capacity)	1366GB
Interfaces	
SAS (Serial Attached SCSI) 1.1 Input	SFF-8088 type x1
SAS (Serial Attached SCSI) 1.1 Output	SFF-8088 type x2
Ethernet (For Maintenance)	100Base-TX/10Base-T auto x1
Serial Interface (For Maintenance)	RS-232C x1
General	
Dimensions (W x H x D)	430mm x 87mm x 417mm (17 x 3½ x 16½ inches) (exclusive projections)
Mass	Approx. 13.5Kg (29lbs 12oz)
Power Requirements	100V to 127V/200V to 240V, AC (50/60Hz)
Power Consumption	265W (typical)
Operating Temperature	5 to 40°C (41 to 104°F)
Operating Humidity	10 to 80% (Max. wet-bulb temperature 30°C non-condensing)
Serial Interface (For Maintenance)	RS-232C x1
Supplied Accessories	
	Front panel key x2, Rubber foot x4, CD x1

Encoding Card	NSBK-A16
Number of Analogue Cameras Supported	Max. 16
Number of Audio Inputs	Max. 4 inputs
Video Compression	MPEG-4
Input Video Format	NTSC or PAL
Mass	Approx. 72g (2.5oz)
Input Connector	DVI-I Connector x1
Host Interface	PCI
Analogue Camera Cable (Supplied)	
Input Connector (Video)	BNC x16
Input Connector (Audio)	RCA x4
Output Connector	DVI-I Connector x1
Mass	Approx. 235g (8.3oz)
Length	300mm (11 7/8 inches)
General	
Operating Temperature	5 to 40°C (41 to 104°F)
Operating Humidity	10 to 80% (Max. wet-bulb temperature 30°C, non-condensing)
Supplied Accessories	
	Analogue Camera Cable x1, CD x1

NSR Accessories

Expand your NSR storage with a selection of cost-effective storage solutions to enable you to keep your data longer, while allowing fast access and reliable data protection.

Features & Benefits

NSRE-Si8/1

- 8 hot-swappable SAS/SATA drive bays in a robust 2U chassis
- Quad-port iSCSI 1Gb access with link aggregation and jumbo frames support
- iSCSI, SMB/CIFS, NFS, FTP support
- Online Volume Clone, Box-to-Box Replication, and NAS Fusion
- Single power supply unit with 80-PLUS Bronze Certified
- OPAS and UPS Monitor via USB service
- Comprehensive embedded web-based management via Ethernet – WebPAM PROe
- Power Scheduler Operation
- MAID 2.0 support
- PerfectRAID and Predictive Data Migration technology for robust error handling and recovery
- LCD Panel support (optional)
- Wake-on-LAN support (VessRAID)
- Wake-on-SAS support (VessJBOD)

NSRE-Si16/1

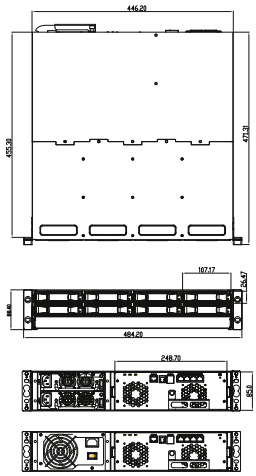
- 16 hot-swappable SAS/SATA drive bays in a robust 3U chassis
- Quad-port iSCSI 1Gb access with link aggregation and jumbo frames support
- iSCSI, SMB/CIFS, NFS, FTP support
- Online Volume Clone, Box-to-Box Replication, and NAS Fusion
- SAS expansion for easy scalability
- Single power supply unit with 80-PLUS Bronze Certified
- OPAS and UPS Monitor via USB service
- Comprehensive embedded web-based management via Ethernet – WebPAM PROe
- Power Scheduler Operation
- MAID 2.0 support
- PerfectRAID and Predictive Data Migration technology for robust error handling and recovery
- LCD Panel support (optional)
- Wake-on-LAN support (VessRAID)
- Wake-on-SAS support (VessJBOD

NSRE-SJBOD16/1

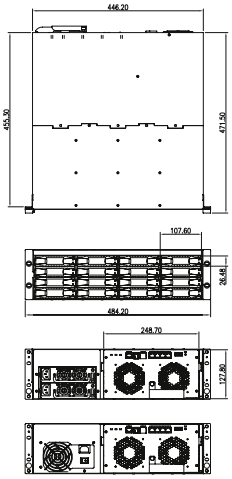
- 16 hot-swappable drive bays in a robust 3U chassis
- Supports Serial Attached SCSI (SAS) and SATA drives
- Single SAS JBOD I/O module
- Single power supply unit with 80-PLUS Bronze Certified
- SES-2 compliant enclosure management
- Fully compatible with PROMISE HBAs and RAID subsystems
- Wake-on-SAS support (WOS)

Dimensions

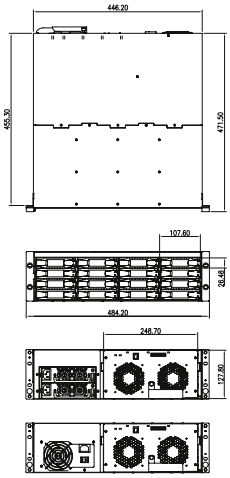
NSRE-Si8/1



NSRE-Si16/1



NSRE-SJBOD16/1



Peripherals

NSRE-RM1
Rackmount kit for the following products - NSR-1100, NSR-1200 & NSR-1050H.

NSRE-RM2
Rackmount kit for NSRE-Si8/1, for the installation in a standard 19" rack housing.

NSRE-RM3
Rackmount kit for NSRE-Si16/1 and NSRE-SJBOD16/1 for installation in a standard 19" rack housing.

NSRE-SASCABLE
This is a 1M cable used to connect the NSRE-SJBOD16/1 with the NSRE-Si16/1.

Specifications

System and Controller Features	NSRE-Si8/1	NSRE-Si16/1
Form Factor	2U	3U
Drive Support	8 Drives (3.5")	16 Drives (3.5")
	SAS(3Gb/s), SATAII(3Gb/s), NCQ, TCQ	
Controller	Single (Intel® IOP348 1.2GHz)	
Host Channel	Quad Ports full-duplex 1Gb iSCSI	
Promise Expansion Enclosure	N/A	One Port SAS-wide (x4) for VessJBOD series
Data Cache	512MB~2GB ECC cache memory with Optional BBU (Battery Backup Unit)	
iSCSI Features	Error Recovery Level 0 Link Aggregation and Jumbo Frames w/ up to 64 Concurrent Sessions CHAP, iSNS and DHCP Microsoft iSCSI MPIO Support	
Command Queue Depth	1024	
NAS Features		
File Sharing Protocol	SMB/CIFS (Apple, Microsoft), NFS (Linux/Unix)	
Network Protocol	FTP	
Data Services	Online Volume Clone, Box Replication, NAS Fusion	
Operational Features		
RAID Levels	0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50, 60	
Hot spares	Global or Dedicated w/ revertible option	
Max LUNs per subsystem	256	
Max LUNs per array	32	
Variable Block and Sector Size	64KB ~ 1MB stripe block sizes 512B, 1KB, 2KB, 4KB sector size	
Disk Data Formats	Supports Disk Data Format (DDF) for drive roaming between VTrak and VessRAID series systems.	
Background Activities	Media Patrol Background Synchronizing; Initialization Rebuild; Redundancy Check SMART Condition Pooling, OCE (Online Capacity Expansion)/RLM (RAID Level Migration) Priority Control; Throttle Rate Control and watermarking per BGA (background activities) in Disk and NVRAM	
RAID Robustness	PDM (Predictive Data Migration) PerfectRAID™ advanced error handling Array Error Recovery Read/Write Check Table, Write Hole Table, Bad Sector Re-map Table, NVRAM event logging	
System Management		
Supported OS	Windows 2000, XP, 2003, Vista, 2008[1] RedHat Linux, SuSE Linux, FreeBSD 7.0 VMWare ESX Server 4.0	
Management Tools	WebPAM PROe/SNMP via Ethernet CLI/CLU via RJ-11 or Ethernet LCD Control Panel (Optional) OPAS/UPS Monitor via USB service Power Scheduler Control	
Management Interfaces/Protocols	Ethernet, RJ-11 Serial Port, USB SNMP, SSL, Telnet, SLP	
Event Notification	Email , SNMP, NETSEND, Buzzer, LEDs, LCD Control Panel	
System Information		
AC Input	90 ~ 264 VAC, 47 ~ 63Hz	
Current (Maximum)	6A (100V); 3A (240V)	7A (100V); 3.5A (240V)
Power Supply	Single 350W 90-264V full-ranging w/PFC 80PLUS® Bronze	Single 450W 90-264V full-ranging w/PFC 80PLUS® Bronze
Power Consumption	167.3 Watts (w/ SAS drives) 73.2Watts (w/o drives)	242.8 Watts (w/ SAS drives) 72.2Watts (w/o drives)
FAN	N+1 Design	
Temperature	5° ~ 40°C[2] (-40° ~ 60°C non operational)	
Relative Humidity	10% to 80% non-condensing	
Dimensions (H x W x D)	88.2 x 446.2 x 461 mm 3.5 x 17.6 x 18.1 in	130.1 x 446.2 x 461 mm 130.1 x 446.2 x 461 mm
Weight	10.8 kg (23.81 lbs) w/o drives 16kg (35.27 lbs) w/ drives	13.2 kg (29.1 lbs) w/o drives 23.6 kg (52.03 lbs) w/ drives
Safety/EMI	CE, FCC Class B, VCCI, BSMI, CB, KCC, C-Tick, UL/cUL, TUV	
Base Configuration	VessRAID 2U/3U Unit w/ Drive Carrier VessRAID 2U/3U Unit w/ Drive Carrier RJ11-to-DB9 Serial Data Cable, Power Cord	
Warranty and Support		
Warranty	3 years limited warranty[3]	
Supported Hardware Options	LCD Panel, Front Bezel, Sliding Rail, Battery Backup Unit, SAS Cable	

[1]Microsoft® WHQL for Windows Server 2003 and 2008. [2]Operational Temperature between 5° ~ 35°C if BBU installed. [3]BBU is covered by one year limited warranty.

JBOD I/O Module Features	NSRE-SJBOD16/1
Form Factor	3U
Drive Support	16 Drives (3.5") SAS(3Gb/s), SATAII(3Gb/s)
Controller	Single
Host Channel	Dual, IN/OUT SAS-wide(x4) port over SFF-8088
Host Options	
Promise RAID HBA	SuperTrak EX8654, SuperTrak EX8658 SuperTrak TX8658
Promise RAID Storage System	VessRAID 1000 iSCSI/SAS Series
SAS Features	
Management Function	SAS Features Full SAS domain Topology Management SAS Management Protocol In-band Access to Expander and PHY Statistic Counters and Performance Monitors Statistic Counters and Performance Monitors SES Enclosure Management
System Management	
Supported OS	Windows 2000, XP, 2003, Vista, 2008 Windows 2000, XP, 2003, Vista, 2008 RedHat Linux, SuSE Linux, FreeBSD 7.0
Management Interfaces	LED Status Indicator In-band SES Enclosure Management In-band SES Enclosure Management
Management Protocols	SES over in-band SAS
System Information	
AC Input	90 ~ 264 VAC, 47 ~ 63Hz
Current (Max)	7A (100V); 3.5A (240V)
Power Supply	Single 450W 90-264V auto-ranging w/PFC 80PLUS® Bronze
FAN	N+1 Design
Temperature	5° ~ 40°C1 (-40° ~ 60°C non operational)
Relative Humidity	10% to 80% non-condensing
Dimensions (H x W x D)	131 x 446.2 x 460.5 mm 5.1 x 17.6 x 18.1 in
Weight	13.8 kg (30.42 lbs) w/o drives 13.8 kg (30.42 lbs) w/o drives
Safety/EMI	CE, FCC Class B, VCCI, BSMI, CB, KCC, C-Tick, UL/cUL, TUV
Base Configuration	VessJBOD 2U/3U Unit w/ Drive Carrier RJ11-to-DB9 Serial Data Cable, Power Cord Quick Start Guide, Set of Screws, CD (Product Manual, Firmware Update Tool, QSG)
Warranty and Option	
Warranty	3 years limited warranty[2]
Supported Hardware Options	Front Bezel, Sliding Rail, SAS Cable

[1]Operational Temperature between 5° ~ 35°C if BBU installed.
[2]BBU is covered by one year limited warranty

NSR Accessories continued

Features & Benefits

NSRE-S200

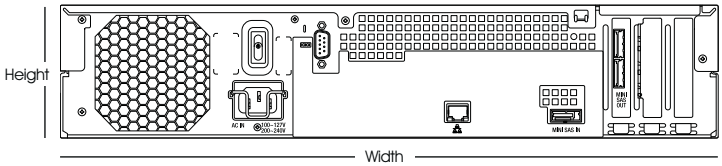
- The NSR-1200/1100/1050H has an internal storage capacity of up to 2 TB/1 TB/0.5 TB respectively. For additional storage requirements, each server can connect up to seven NSRE-S200 units via its SAS interface. The NSRE-S200 is a 2 TB hard disk storage device with RAID 5 capability. With the NSR-1200 in RAID 5 configuration and with seven connected NSRE-S200 units, its total maximum recording capacity is approximately 11 TB.

RM-NS1000

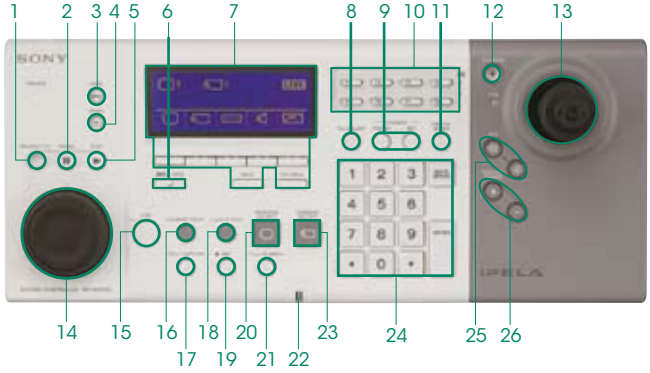
- An optional RM-NS1000 System Controller – which connects to the NSR-1000 Series or a client PC via USB cable – allows the user to control multiple servers and cameras. A wide range of operations can be performed from this unit, including camera selection, Pan/Tilt/Zoom (PTZ) with preset controls, snapshot capturing, video exporting, and event search and playback. Equipped with a three-axis joystick with a mouse emulator, three-line LCD, and feature-rich control panel, the RM-NS1000 is the ideal tool for easy operation of your system.

Dimensions

Rear Panel NSRE-S200



Height 3.4" (87mm)
Width 16.9" (430mm)
Depth 16.4" (417mm)



1. JOG/SHUTTLE LED BUTTON
2. PAUSE
3. LOCK BUTTON
4. PANIC BUTTON
5. PLAY BUTTON
6. ALARM BUTTON
7. LCD/MULTI FUNCTION BUTTON
8. ALL SELECT BUTTON
9. PRESET/SET BUTTON
10. CUSTOM FUNCTION BUTTON
11. DIGITAL ZOOM BUTTON
12. CURSOR LED BUTTON
13. JOYSTICK
14. JOG/SHUTTLE DIAL
15. LIVE BUTTON
16. CAMERA TOUR BUTTON
17. STILL CAPTURE BUTTON
18. LAYOUT TOUR BUTTON
19. MIC BUTTON
20. MONITOR SELECT BUTTON
21. FULL SCREEN BUTTON
22. BUILT-IN MIC
23. CAMERA SELECT BUTTON
24. NUMERIC KEY
25. IRIS BUTTON
26. FOCUS BUTTON

Specifications

Storage Capacity		NSRE-S200
Hard disk drive	Physical capacity	2 TB (500 GB x4)
	Interface	Serial ATA
	RAID level	RAID 5
	Recording capacity	Approx. 1396 GB
Interfaces		
Ethernet		100BASE-TX/10BASE-T x1 (Auto switching) (For maintenance)
Serial interface		RS-232C x1 (For maintenance)
Serial attached SCSI (SAS1.1)		SFF-8088 (mini-SAS 26pin): input x1, output x2
General		
Dimensions (W x H x D)		430 x 87 x 417 mm (16.9 x 3.4 x 16.4 inches) (Excluding protrusions)
Mass		Approx. 12 kg (26 lb 7 oz)
Power requirements		AC 100 to 127 V/200 to 240 V (50/60 Hz)
Power consumption		Approx. 80 W (typical) (Max. 350 W)
Operating temperature		5 to 40 °C (41 to 104 °F)
Operating humidity		20 to 80 %
Supplied accessories		Mini-SAS cable (1 m), Front panel key (2), Installation manual, Safety regulations, WEEE booklet, Warranty booklet, Rubber foot (4)

Interfaces	RM-NS1000
Interface	USB 2.0 low-speed device (Cable Length - Approx 3m; 9ft. 10in.)
External Interface	USB 2.0 (2)
	Microphone stereo mini jack (plug-in power) (1)
	Headphone stereo mini jack (1)
	RS-485 port
General	
Dimensions	409.0 (W) x 111.5 (H) x 170.0 (D) mm (16 1/8 x 4 1/2 x 6 3/4 inches)
Mass	1.200 g (2.6 lb)
Power Requirement	DC 12V
Power Consumption	1A
AC Adapter	100-240V AC, 50/60Hz
Operating Temperature	5 to 40 degrees C (41 to 104 degrees F)
Operating Humidity	20 to 80 % (max. wet bulb temperature : 32 decrees C (90 degrees F))
Supplied Accessories	AC Adapter (1), First Step Guide (1), CD-ROM (User's Guide) (1), Warranty (1)

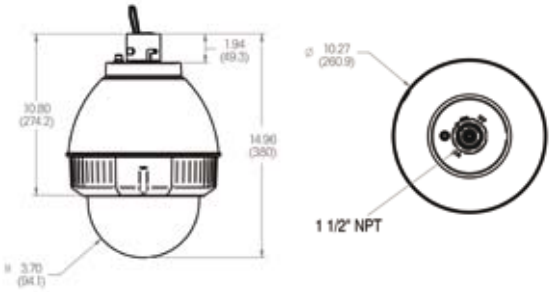
SNCA-HRX550/EXT

The SNCA-HRX550/EXT Dome offers versatility, easy installation and camera protection in a compact size. This inconspicuous dome housing is specifically designed to accommodate Sony's SNC-RX550, SNC-RZ25, SNC-RS44/46 and SNC-RH124 cameras.

Features and Benefits

- Easy camera installation in an IP66 rated dome
- Designed to support the SNC-RX550, SNC-RZ25, SNC-RS44/46 and SNC-RH124 cameras in outdoor installations
- Constructed of durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear .118" (3mm) thick aspheric polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 24VAC heater
- Separate power input for H&B and camera power

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour
SNCA-HRX550/EXT	Outdoor dome camera housing	IP66	-29 to +50°C -44 to +50°C with optional heater/blower kit added (SNCA-HEATER)	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P SNC-RZ25 SNC-RS44/46 SNC-RH124	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9

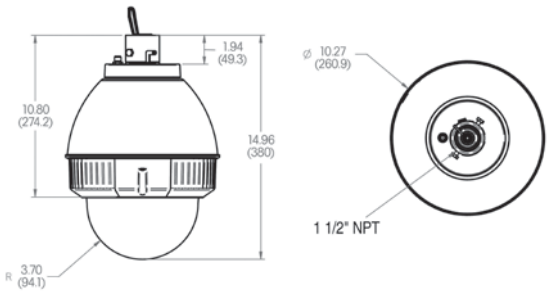
SNCA-HRX550/INT

The SNCA-HRX550/INT 7" Dome offers versatility, easy installation and camera protection in a compact size for indoor installations. This inconspicuous dome housing is specifically designed to accommodate Sony's SNC-RX550N, SNC-RZ25N, SNC-RS44/46 and SNC-RH124 cameras

Features and Benefits

- Easy camera installation
- Designed for the SNC-RX550, SNC-RZ25N, SNC-RS44/46 and SNC-RH124 cameras
- Constructed of Durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear.118" (3mm) thick aspheric polycarbonate dome

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour
SNCA-HRX550/INT	Indoor dome camera housing	IP66	0 to 50°C	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P SNC-RZ25N SNC-RS44/46 SNC-RH124	SNCA-CLEAR/2 (included) SNCA-TINTED/2	DuPont Sky White PFW-510-S9

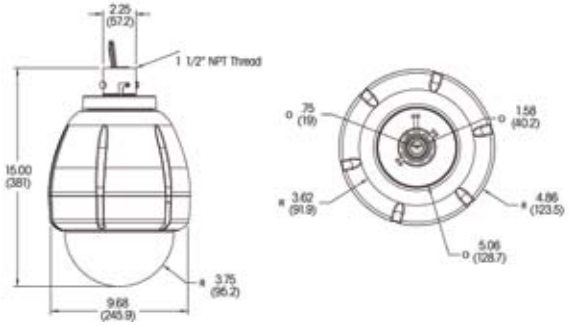
SNCA-HRX550EXT/R

The SNCA-HRX550EXT/R 7" Dome offers heavy duty, vandal resistant protection for the camera. This tough dome housing is specifically designed to accommodate Sony's SNC-RX550,SNC-RZ25N, SNC-RS44/46 and SNC-RH124 cameras. The housing offers versatility, easy installation and outstanding camera protection in a compact size.

Features and Benefits

- Easy camera installation in an IP66 outdoor dome
- Offers IK-10 level protection for the SNC-RZ25N and SNC-RX550 series cameras
- Outdoor dome, UV protected
- Strong cast aluminum top and trim ring for IK10 rated protection
- Optically clear 118" (3mm) thick aspheric polycarbonate dome
- Thermostatically controlled 24VAC heater
- 24 Hour fan operation for effective heating and condensation protection
- Separate power input for H&B and camera power
- Pendant mount, 1½" NPT quick connect coupling

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour
SNCA-HRX550EXT/R	Heavy duty, outdoor dome housing	IP66	-29 to +50°C -44 to +50°C with optional heater/ blower kit added (SNCA-HEATER)	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P SNC-RH124 SNC-Z25N SNC-RS44/46	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9

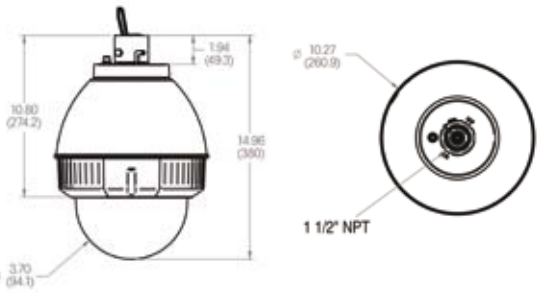
SNCA-HRX550EXT/W

The SNCA-HRX550EXT/W 7" Dome offers versatility, easy installation and camera protection in a compact size. This inconspicuous dome housing is specifically designed to accommodate Sony's SNC-RX550 and SNC-RZ25 cameras when equipped for wireless operation. The SNCA-HRX550EXT/W includes a pre-run wireless antenna cable that works with the SNCA-CFW1 wireless card & SNCA-AN1 antenna.

Features and Benefits

- Easy camera installation in an IP66 rated dome
- Designed to support the SNC-RX550 and SNC-RZ25 cameras in outdoor, wireless installations
- Constructed of Durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear.118" (3mm) thick aspheric polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 24VAC heater
- Separate power input for H&B and camera power
- Wireless antenna cable included with housing

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour
SNCA-HRX550EXT/W	External dome housing (wireless)	IP66	-29 to +50°C -44 to +50°C with optional heater/ blower kit added (SNCA-HEATER)	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P SNC-RZ25	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9

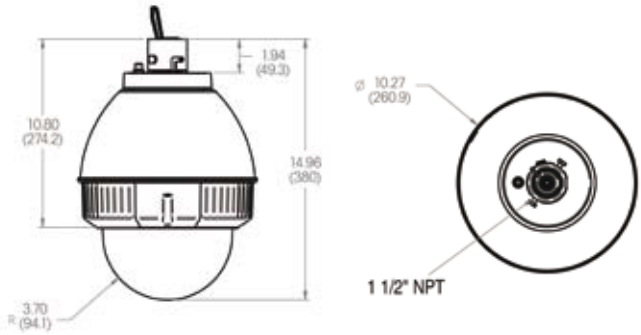
SNCA-RX550EXT12V

The SNCA-RX550EXT Dome offers versatility, easy installation and camera protection in a compact size. This inconspicuous dome housing is specifically designed as a 12vdc input enclosure for outdoor installations.

Features and Benefits

- Easy camera installation in an IP66 rated dome
- Designed as a 12vdc input model for outdoor installations
- Constructed of durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear.118" (3mm) thick aspheric polycarbonate dom
- 24 Hour fan operation for effective heating and condensation prote
- Thermostatically controlled 12vdc heater
- Separate power input for H&B and camera power

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-RX550EXT12V	External dome housing (12V)			12VDC	SNC-RX-550P	N/A	Clear	

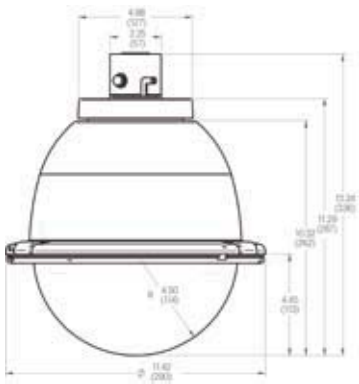
SNCA-HRZ25

The SNCA-HRZ25 outdoor dome housing with clear dome, 24 VAC input, with heater & blower offers versatility and camera protection in a compact size. This inconspicuous dome housing is specifically designed to accomodate Sony's SNC-RZ25 Network camera.

Features and Benefits

- Easy camera installation
- Constructed of a durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear 118" (3mm) thick aspheric polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 24VAC heater
- Separate power input for H&B and camera power

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Colour
SNCA-HRZ25	Outdoor 8" dome housing, pendant mount with clear dome for SNC-RZ25 camera	IP66	-6.67 to +40°C	24VAC, 75W	SNC-RZ25	DuPont Sky White PFW-510-S9

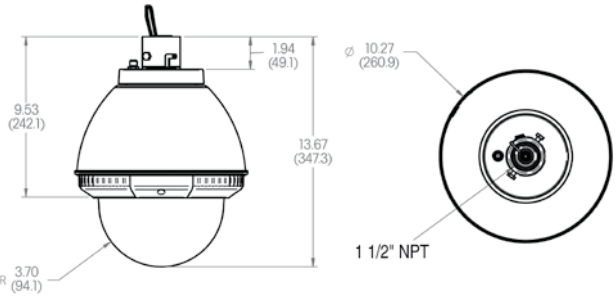
SNCA-HRZ50/EXT

The SNCA-HRZ50/EXT Dome offers versatility and camera protection in a compact size. This inconspicuous dome housing is specifically designed to accommodate Sony's SNC-RZ30 and SNC-RZ50 cameras. The housing offers versatility, easy installation and outstanding camera protection in a compact size.

Features and Benefits

- Easy camera installation
- Constructed of a durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear 118" (3mm) thick aspheric polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 24VAC heater
- Separate power input for H&B and camera power

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HRZ50/EXT	External dome housing	IP66	-29 to +50°C (-44 to +50°C with optional heater blower kit)	24VAC	SNC-RZ30P SNC-RZ50P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9	

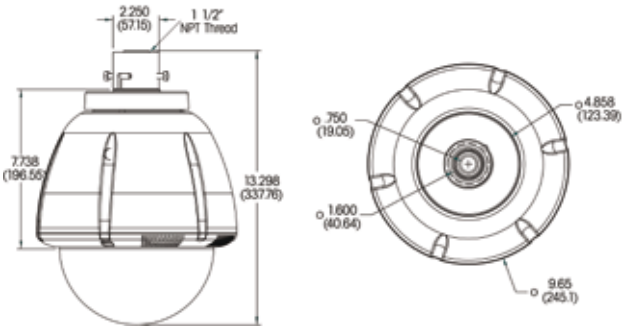
SNCA-HRZ50/EXT/R

The SNCA-HRZ50/EXT/R 7" Dome offers heavy duty, vandal resistant, IK10 rated protection for the camera. This tough dome housing is specifically designed to accommodate Sony's SNC-RZ30N and SNC-RZ50N cameras. This housing offers versatility, easy installation and outstanding camera protection in a compact size.

Features and Benefits

- Easy camera installation
- Outdoor dome, UV protected
- Strong cast aluminum top and trim ring offers IK10 vandal protection
- Optically clear 118" (3mm) thick aspheric polycarbonate dome
- Thermostatically controlled 24VAC heater
- 24 Hour fan operation for effective heating and condensation protection
- Separate power input for H&B and camera power
- Pendant mount, 1½" NPT quick connect coupling
- Accepts the SNC-RZ25N and SNC-RZ30N cameras

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HRZ50/EXT/R	Heavy duty, indoor dome housing	IP66	-29 to +50°C (-44 to +50°C with optional heater blower kit)	24VAC	SNC-RZ30P SNC-RZ50P	SNCA-CLEAR/2 (included) SNCA-TINTED/2	DuPont Sky White PFW-510-S9	

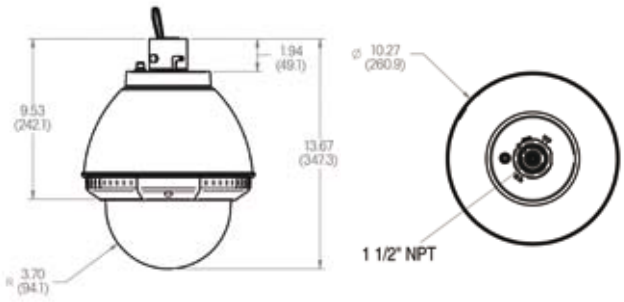
SNCA-HRZ50/EXT/W

The SNCA-HRZ50/EXT/W Dome offers versatility and camera protection in a compact size. This inconspicuous dome housing includes a pre-run wireless antenna cable that works with the SNCA-CFW1 wireless card & SNCA-AN1 antenna. This housing offers versatility, easy installation and outstanding camera protection in a compact size.

Features and Benefits

- Easy camera installation
- Constructed of a durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear 118" (3mm) thick aspheric polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 24VAC heater
- Separate power input for H&B and camera power
- Wireless ready model

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HRZ50/EXT/W	External dome housing (wireless)	IP66	-29 to +50°C (-44 to +50°C with optional heater blower kit)	24VAC	SNC-RZ30P SNC-RZ50P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER SNCA-CFW1 SNCA-AN1	DuPont Sky White PFW-510-S9	

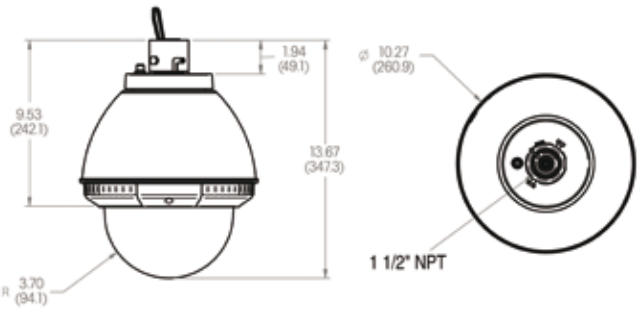
SNCA-HRZ50/INT

The SNCA-HRZ50/INT Dome offers versatility and camera protection in a compact size. This inconspicuous dome housing is specifically designed to support Sony's SNC-RZ30 and SNC-RZ50 cameras in indoor installations. The housing offers versatility, easy installation and outstanding camera protection in a compact size.

Features and Benefits

- Easy camera installation
- Constructed of a durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear 118" (3mm) thick aspheric polycarbonate dome

Dimensions

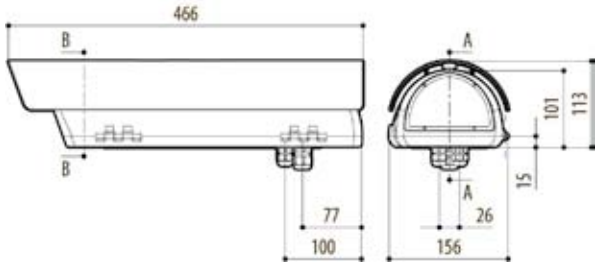


Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HRZ50/INT	Internal dome housing	IP66	0 to +50°C	12VDC	SNC-RZ30P SNC-RZ50P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9	

SNCA-HFIXSML/230

A 115VAC/230VAC Polycarbonate Housing with a Cable Managed Aluminium bracket, designed for use with the smaller cameras. This IP66 aesthetically pleasing housing should protect the camera against all that the elements can throw at it.

Dimensions

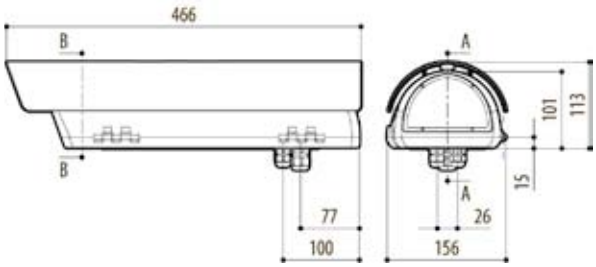


Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models		Optional accessories	Colour	Approx. Dimensions
SNCA-HFIXSML/230	Fixed housing, c/w sunshield, heater, wall bracket	IP66	-28 to 48°C	230VAC, 50Hz	SNC-CS10 SNC-CS11 SSC-DC172P SSC-DC198P SSC-DC372P SSC-DC378P	SSC-E453P SSC-E458P SSC-E473P SSC-E478P SSC-M383CE SSC-M388CE	Additional camera PSU may be required (SNCA-PSVTSML230) when using 230VAC model	DuPont Sky White PFW-510-S9	L400 x H106 x W127.5mm

SNCA-HFIXSML/24

A 12VDC/24VAC Polycarbonate Housing with a Cable Managed Aluminium bracket, designed for use with the smaller cameras. This IP66 aesthetically pleasing housing should protect the camera against all that the elements can throw at it.

Dimensions

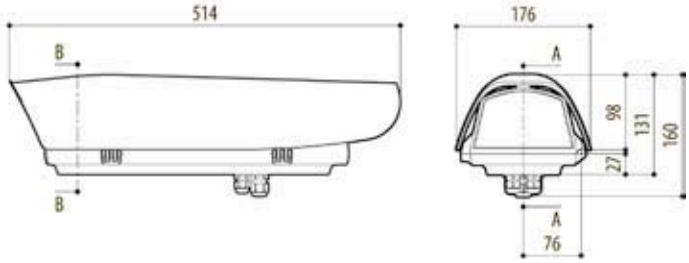


Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models		Optional accessories	Colour	Approx. Dimensions
SNCA-HFIXSML/24	Fixed housing, c/w sunshield, heater, wall bracket	IP66	-28 to 48°C	24VAC, 50Hz	SNC-CS10 SNC-CS11 SSC-DC172P SSC-DC198P SSC-DC372P SSC-DC378P	SSC-E453P SSC-E458P SSC-E473P SSC-E478P SSC-M383CE SSC-M388CE		DuPont Sky White PFW-510-S9	L400 x H106 x W127.5mm

SNCA-HFIXSTD/230

A 115VDC/230VAC die cast aluminium side opening housing with a cable managed bracket designed to the highest specification, IP66 rated to protect cameras against the weather.

Dimensions

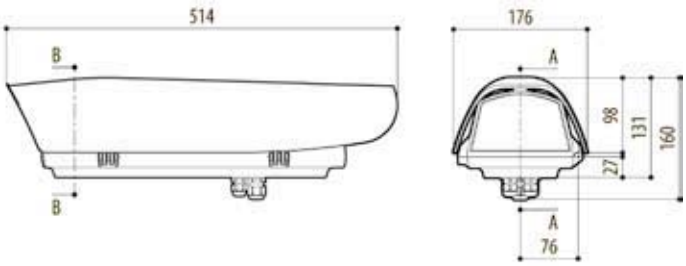


Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HFIXSTD/230	Fixed housing, c/w sunshield, heater, wall bracket	IP66	-28 to 48°C	230VAC, 50Hz	SNC-CS3P SNC-CS10P SNC-CS11P SNC-Z20P SNC-CS20 SNC-CM120 SNC-CS50P SNC-CH140 SSC range	Additional camera PSU may be required (SNCA-PSVTSTD230) when using 230VAC model	DuPont Sky White PFW-510-S9	L514 x H131 x W176mm

SNCA-HFIXSTD/24

A 12VDC/24VAC die cast aluminium side opening housing with a cable managed bracket designed to the highest specification, IP66 rated to protect cameras against the weather.

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HFIXSTD/24	Fixed housing, c/w sunshield, heater, wall bracket	IP66	-28 to 48°C	24VAC, 50Hz	SNC-CS3P SNC-CS10P SNC-CS11P SNC-Z20P SNC-CS20 SNC-CM120 SNC-CS50P SNC-CH140 SSC Range		DuPont Sky White PFW-510-S9	L514 x H131 x W176mm

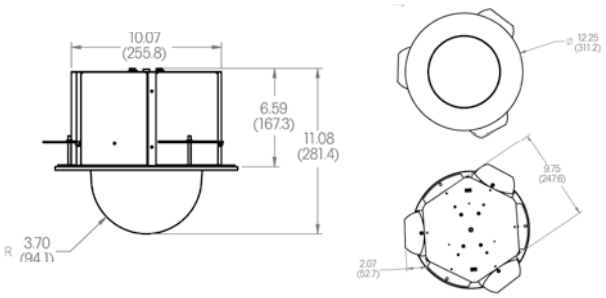
SNCA-ICPTZ/C & SNCA-ICPTZ/T

The SNCA-ICPTZ/C is a low profile indoor ceiling housing. It features a 7" optically clear polycarbonate dome, which accommodates Sony PTZ Cameras. The upper body is made of steel with a white powder coat trim ring and an injection molded 3mm thick, optically clear thermoplastic polycarbonate dome.

Features and Benefits

- 7" polycarbonate dome for easy installation and servicing from below the ceiling
- Housing extends only 3.5" below ceiling
- For the SNC-RZ25, SNC-RZ30, SNC-RZ50, SNC-RS44/46, SNC-RH124 and SNC-RX series ptz cameras
- Includes a decorative trim ring with quick-release pressure springs
- Optically clear .118" (3mm) thick aspheric polycarbonate dome
- A tinted lower dome is available as p/n SNCA-TINTED/2

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models		Optional accessories	Colour	Approx. Dimensions
SNCA-ICPTZ/C	Clear dome in ceiling bracket	N/A	N/A	N/A	SNC-RX530P SNC-RX550P SNC-RX570P SNC-RZ50P	SNC-RZ25P SNC-RZ30P SNC-RS44/46 SNC-RH124	N/A	Clear	H9.1" x W12" x D12"
SNCA-ICPTZ/T	Tinted dome in ceiling bracket	N/A	N/A	N/A	SNC-RX530P SNC-RX550P SNC-RX570P SNC-RZ50P	SNC-RZ25P SNC-RZ30P SNC-RS44/46 SNC-RH124	N/A	Tinted	H9.1" x W12" x D12"

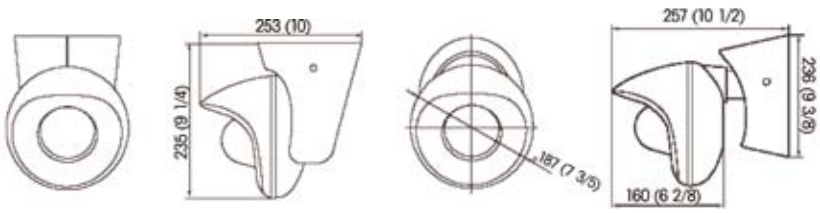
SNCA-HP5

The SNCA-HP5 is a unique outdoor housing for the SNC-P5 camera.

Features and Benefits

- Easy camera installation
- Waterproof to IP x 3
- Operating Temperature -10C to +50C

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HP5	Camera housing for SNC-P5		-10 to +50°C		SNC-P5	N/A	DuPont Sky White PFW-510-S9	187 x 238 x 257mm (wall mounted)

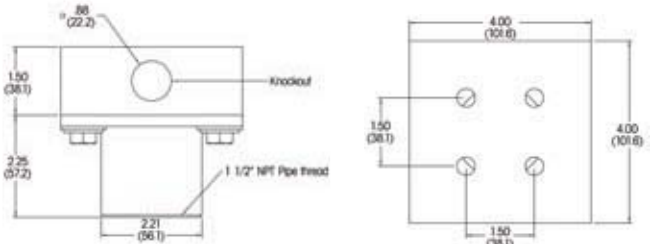
SNCA-CEILING

The SNCA-CEILING is a ceiling mount adapter with Junction Box and 1½" NPT coupling

Features and Benefits

- Constructed of heavy duty steel
- RoHS compliant

Dimensions



Model	Description	Applicable/compatible housing models	Optional accessories	Dimensions	Colour
SNCA-CEILING	Ceiling mounting kit	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R	SNCA-POLE30 (Ceiling mount adapter)	N/A	Black

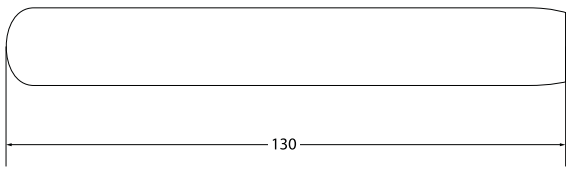
SNCA-POLE30

Extension pipe, 305mm (12") long for use with SNCA-CEILING

Features and Benefits

- RoHS compliant

Dimensions



Model	Description	Applicable/compatible housing models	Dimensions	Colour
SNCA-POLE30	Extension pole for ceiling mount housings	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R	L30cm	Black

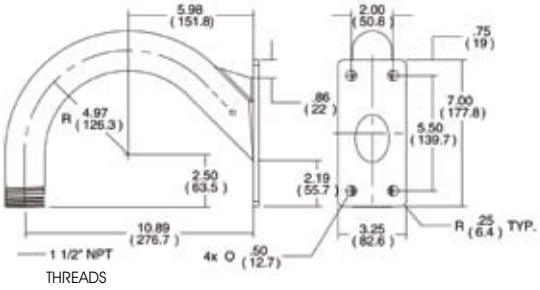
SNCA-WM20G

The SNCA-WM20G is an aluminum gooseneck wall mount bracket for use with all dome enclosures,

Features and Benefits

- RoHS compliant

Dimensions



Model	Description	Applicable/compatible housing models		Optional accessories	Colour
SNCA-WM20G	Gooseneck wall mount	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT	SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R SNCA-HRZ25 SNC-RS/RH Series	SNCA-PM3 (Pole mount adaptor) SNCA-CA2 (Corner adaptor) SNCA-POWERBOX	DuPont Sky White PFW-510-S9

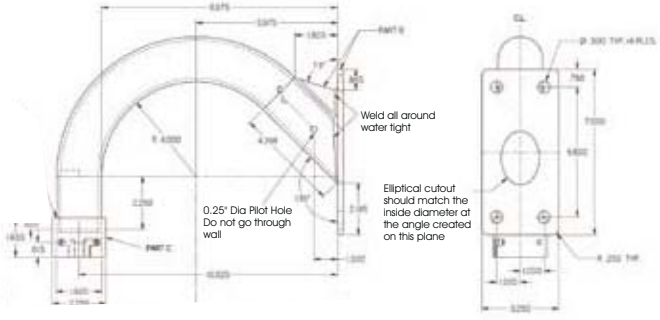
SNCA-WM20FC

The SNCA-WM20FC is an aluminum gooseneck wall mount bracket with fixed coupling for use with all dome enclosures.

Features and Benefits

- RoHS compliant

Dimensions


Weld all around water tight
0.25" Dia Pilot Hole Do not go through wall
Elliptical cutout should match the inside diameter at the angle created on this plane

Model	Description	Applicable/compatible housing models		Optional accessories	Colour
SNCA-WM20FC	Wall mounted bracket with fixed coupling	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE	SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R SNC-RS/RH Series	SNCA-PM3 (Pole mount adaptor) SNCA-CA2 (Corner adaptor) SNCA-POWERBOX	DuPont Sky White PFW-510-S9

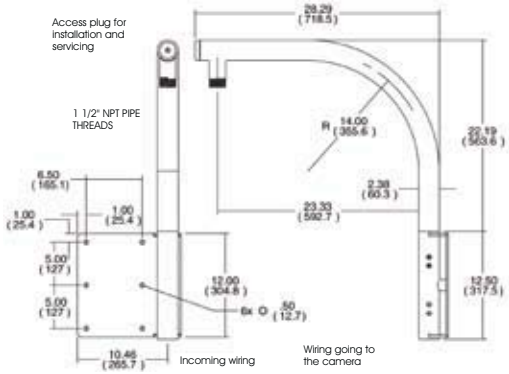
SNCA-WM30G

The SNCA-WM30G is a roof top parapet bracket designed to mount the camera dome out & away from the roof top for an unobstucted view. It features a 1½" pipe thread to mount to any Sony dome. The design allows the dome to be swung back over the roof for servicing.

Features and Benefits

- All aluminum construction
- Durable powder coat finish
- 1½" pipe thread for quick and easy mounting
- 50 lb load rating

Dimensions



Model	Description	Applicable/compatible housing models	Optional accessories	Dimensions	Colour
SNCA-WM30G	Gooseneck wall mount				

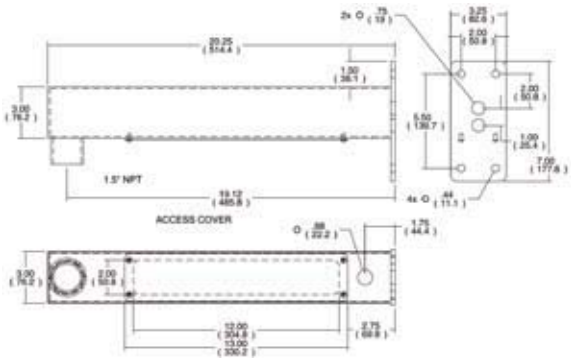
SNCA-WM40

Heavy-duty wall mount with removable panel. Durable off-white polyurethane powder coat finish for corrosion resistance in outdoor use.

Features and Benefits

- Heavy duty wall mount for use with all Sony domes

Dimensions



Model	Description	Applicable/compatible housing models		Optional accessories	Dimensions	Colour
SNCA-WM40	Extended wall mount bracket	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE	SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R	SNCA-PM3 (Pole mount adapter) SNCA-CA2 (Corner adapter)	L53cm	DuPont Sky White PFW-510-S9

SNCA-CAFIX1

This is a Corner mount fixing for the Housings and wall brackets to fit to.

SNCA-PMFIX1

This pole mount adaptor allows the Housing range with Brackets to be attached to a pole of Diameter between 65mm and 110mm.

SNCA-WMFIX10PC

A Camera Bracket for indoor usage, it is 14cm long and has an adjustment that allows for Wall or Ceiling mounting.

Model	Description	Applicable/compatible housing models		Optional accessories	Dimensions	Colour
SNCA-CAFIX1	Corner mount adapter	SNCA-HFIXSML/24 SNCA-HFIXSML/230 SNCA-HFIXSTD/24 SNCA-HFIXSTD/230		N/A	L22cm	
SNCA-PMFIX1	Pole mount adapter	SNCA-HFIXSML/24 SNCA-HFIXSML/230 SNCA-HFIXSTD/24 SNCA-HFIXSTD/230		N/A	L17.27cm	
SNCA-WMFIX10PC	Wall/ceiling camera bracket	SNC-CS10 SNC-CS11 SNC-CS20	SNC-CS50P SNC-CM120 SNC-Z20P	N/A	H14.1cm	

SNCA-CA2

The SNCA-CA2 is an aluminum corner mount bracket with female inserts, which can accommodate the SNCA-WM20G, SNCA-WM20FC and SNCA-WM40

SNCA-PM3

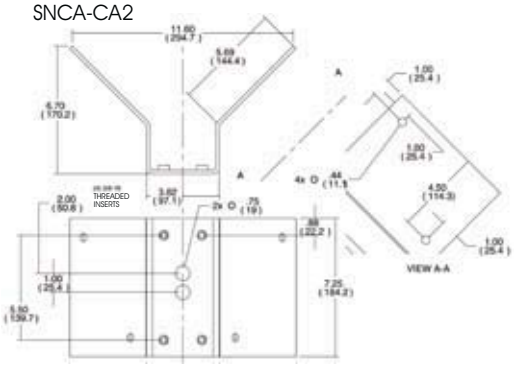
The SNCA-PM3 is an aluminum pole mount adapter.

Features and Benefits

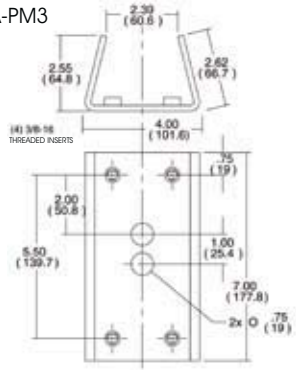
- RoHS compliant

Dimensions

SNCA-CA2



SNCA-PM3



Model	Description	Applicable/compatible housing models		Optional accessories	Colour
SNCA-CA2	Corner mount bracket, 22Kg max load rating	SNCA-WM20G SNCA-WM40 SNCA-WMMD1	SNCA-WMMD2 SNCA-WM20FC SNCA-WMMD4		DuPont Sky White PFW-510-S9
SNCA-PM3	Pole mount adaptor bracket	SNCA-WM20G SNCA-WM40	SNCA-WMMD1 SNCA-WMMD2	SNCA-PM3 SNCA-CA2	White

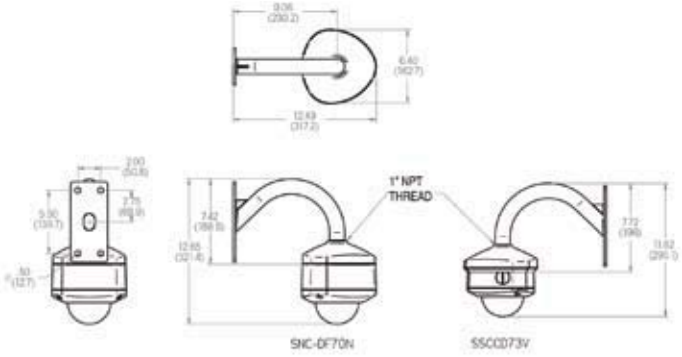
SNCA-WMMD1

The SNCA-WMMD1 is a cast aluminum mini dome bracket kit that bolts directly the SSC-CD73 or SNCDF70 to allow the camera to be wall or pendant mounted. A 1" NPT pipe thread, aluminum gooseneck wall mount is included. The wall mount can be combined with the SNCA-CA2 for corner mount applications and with the SNCA-PM3 for pole mount applications. The kit includes Teflon thread sealant tape, gaskets and a sealing grommet for protection outdoors.

Features and Benefits

- Wall mount or pendant mount the SSC-CD73V or SNCDF70N
- All aluminum construction
- 1" pipe thread for pendant mounting
- Gooseneck bracket for wall mounting
- Outdoor or indoor use

Dimensions



Model	Description	Applicable/compatible housing models	Optional accessories	Dimensions	Colour
SNCA-WMMD1	Wall mounted mini dome bracket DF70/CD73	SNC-DF70 SSC-CD73	SNCA-PM3 (Pole mount adapter) SNCA-CA2 (Corner adapter)		DuPont Sky White PFW-510-S9

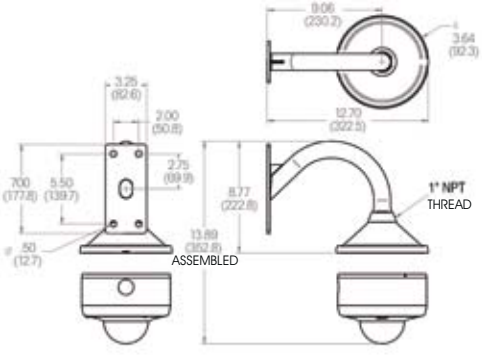
SNCA-WMMD2

The SNCA-WMMD2 is a cast aluminum mini dome bracket kit that bolts directly the SNC-DF80, SNC-DF85, SNC-CD75 and SNC-CD77 cameras to allow for wall or pendant mounting. A 1" NPT pipe thread, aluminum gooseneck wall mount is included. The wall mount can be combined with the SNCA-CA2 for corner mount applications and with the SNCA-PM3 for pole mount applications. The kit includes Teflon thread sealant tape, gaskets and a sealing grommet for protection outdoors.

Features and Benefits

- Wall mount or pendant mount the SNCDF80N
- All aluminum construction
- 1" pipe thread for pendant mounting
- Gooseneck bracket for wall mounting
- Indoor or outdoor use

Dimensions



Model	Description	Applicable/compatible housing models	Optional accessories	Dimensions	Colour
SNCA-WMMD2	Wall mounted mini dome bracket DF80/CD75/77	SNC-DF80P SNC-DF85P SNC-CD75P SNC-CD77P	SNCA-PM3 (Pole mount adapter) SNCA-CA2 (Corner adapter)		DuPont Sky White PFW-510-S9

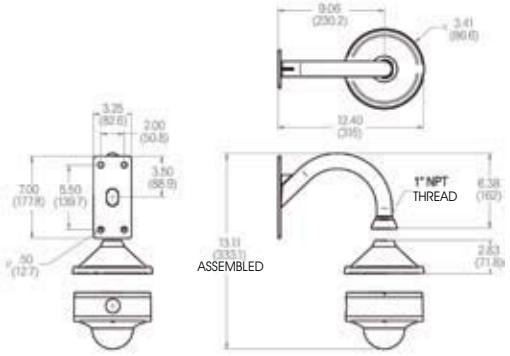
SNCA-WMMD3

The SNCA-WMMD2 is a cast aluminum mini dome bracket kit that bolts directly the SNC-DM160 and SNC-DS60 cameras to allow for wall or pendant mounting. A 1" NPT pipe thread, aluminum gooseneck wall mount is included. The wall mount can be combined with the SNCA-CA2 for corner mount applications and with the SNCA-PM3 for pole mount applications. The kit includes Teflon thread sealant tape, gaskets and a sealing grommet for protection outdoors.

Features and Benefits

- Wall mount or pendant mount the SNC-DM160 & SNC-DS60
- All aluminum construction
- 1" pipe thread for pendant mounting
- Gooseneck bracket for wall mounting
- Indoor or outdoor use

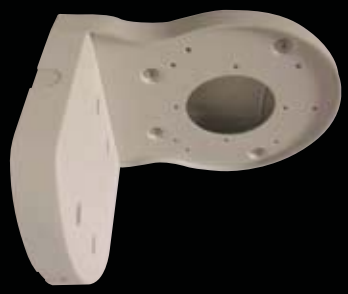
Dimensions



Model	Description	Applicable/compatible housing models	Optional accessories	Dimensions	Colour
SNCA-WMMD3	Mini dome mounting kit, can be used internally or externally. Includes bracket and seal kit	SNC-DM160 SNC-DS60	DuPont Sky White PFW-510-S9		DuPont Sky White PFW-510-S9

SNCA-WMMD4

The SNCA-WMMD4 is a mini-dome bracket kit that bolts the cameras directly to the wall.



Model	Description	Applicable/compatible housing models	Optional accessories	Dimensions	Colour
SNCA-WMMD4	Wall mounted bracket	SNC-DH140/DH240, SNC-DH120/DH220 SNC-DS10/DM110 SNC-DF50 SNC-RH124 SNC-RS44/RS46	N/A		

	Model	Description	Applicable/ compatible housing models	Optional accessories	Dimensions	Colour
	YT-ICB124	In Ceiling Bracket	SNC-RS46N SNC-RS44N SNC-RS44P SNC-RS46P SNC-RH124	YT-LD124	L226 x H152 x W270 mm	N/A
	YT-ICB140	In Ceiling bracket	SNC-DH140 SSC-CD45 SSC-CD45P SSC-CD49 SSC-CD49P SNC-DF50N SNC-DF50P SNC-DS10 SNC-DM110			White
	YT-ICB45	In ceiling bracket	SSC-CD45P SSC-CD49P SSC-CD75P SSC-CD77P SSC-CD79P SNC-DF50P SNC-DF80P SNC-DF85P SNC-DS10 SNC-DM110 SNC-DS60 SNC-DM160			White
	YT-ICB73V	In ceiling bracket for Ssc-cd73vp	SSC-CD73VP			Silver
	YT-LD124C	Clear Dome Cover	YT-ICB124			Clear
	YT-LD124S	Tinted Dome Cover	YT-ICB124			Tinted
	YT-ICB550/T	Tinted in-ceiling bracket for SNC-RX550P	SNC-RX550P			Tinted
	YT-ICB550/C	Clear in-ceiling bracket for SNC-RX550P	SNC-RX550P			Clear

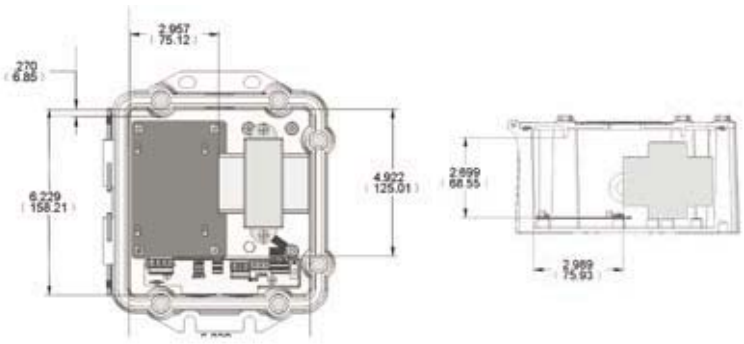
SNCA-POWERBOX

The SNCA-POWERBOX is a rugged, outdoor NEMA rated, cast aluminum power supply with 220/115Vac input converting to 24Vac and 96w output power. Pole mounting clips included.

Features and Benefits

- Rugged cast aluminum NEMA 4 enclosure
- Meets IP 66 standards to prevent the induction of minute particles
- Designed for direct conduit connections
- The SNCA-WM20G and SNCA-WM20FC mount directly to the door for simple installation and a clean look
- Provides 4 amps of power at 24Vac
- Pole mounting clips included

Dimensions



Model	Description	Applicable/ compatible camera models	Key features	Operating voltage	Approx. Weight	Approx. Dimensions	Colour
SNCA-POWERBOX	IP66 rated power supply with bracket connetion	SNCA-WM20G SNCA-WM20FC SNCA-WM40 SNCA-WMMD1 SNCA-WMMD2	Ideal for powering 24VAC housings and the cameras	110VAC / 230VAC (selectable)			White

SNCA-POE1

Compact and Cost-Effective 1-Port Power over Ethernet Midspan. Power over Ethernet (PoE) single port Midspan (PoE injector) offers a compact and cost effective, fully IEEE 802.3af compliant solution for remote powering of wireless LAN (WLAN) access points, and other low port density installations. The 3001 PoE Midspan eliminates the need for external power supply and its associated AC/DC power cabling, providing a compact, affordable, safe and reliable power solution over existing Ethernet infrastructure.

Features and Benefits

- Cost-effective power distribution for WLAN access point installations
- Safe powering of standard compliant,as well as Pre-standard end-terminals
- Investment protection of existing Ethernet switches and cabling infrastructure
- Saves time and reduces installation costs
- Easy plug-and-play installation
- Several units can be mounted adjacently for powering more than one Ethernet terminal
- Cleans up low-density wireless LAN deployment and eliminates the need for multiple one-port PoE solutions
- Supports Gigabit Ethernet data transmission for applications suvh as Wi-Max access points, Gig IP phones, and IP cameras

Dimensions

Specifications

General	
No. of Ports	1
Data Rates	3001/AC: 10/100 Mbps 3001G/AC: 10/100/1000 Mbps
Power over Ethernet Output	Pin Assignment and Polarity: 4/5 (+),7/8 (–)
Output Power Voltage	48
User Port Power	15.4W min.
Input Power Requirements	AC Input Voltage: 90 to 264 Vac
AC Input Current	0.5A @110–220 Vac
AC Frequency	47 to 63 Hz
Dimensions	60 mm (W)x 31 mm (H)x 145 mm (L)
Weight	1 lbs (450 g)
Indicators	
System Indicator	AC Power (Green)
User Indicator	Channel Power (Green)
Connectors	Shielded RJ–45,EIA 568A and 568B
Environmental Conditions	
Operating Ambient Temeprature	32° to 104°F (0 to 40°C)
Operating Humidity	Maximum 90%, non-condensing
Storage Temperature	–4° to 158°F (–20° to 70°C)
Storage Humidity	Maximum 93%, Non-condensing
Operating Altitude	–1000 to 10,000 ft.(–304.8 to 3048 m)
Regulatory Compliance	
Electromagnetic Emission & Immunity	FCC Part 15, Class B with FTP cabling EN 55022 (CISPR 22)Class B with FTP Cabling EN 55024 (CISPR 24), VCCI Safety Approval UL/cUL per EN 60950 GS Mark per EN 60950

SNCA-HPOE1

The SNCA-HPOE1 is a single port, high-power solution for remote powering of current and emerging high power applications.Generating up to 30W, the SNCA-HPOE1 enables remote power for a new range of applications including 802.11 Access Points, pan-tilt-zoom (PTZ) cameras and video-phones. It complies to IEEE 802.3at PoE standard and is backward compatible to IEEE802.3af. It can power both existing 10/100Base-T network devices and emerging wireless 1000Base-T devices such as Wi-MAX and wireless IEEE 802.11n access points.

Features and Benefits

- Up to 30W of Power on 2-pairs
- IEEE 802.3at Compliant with 2-event classification
- IEEE 802.3af backward compatible
- Compatible With All IEEE 802.3af or Legacy Cisco-Powered Devices
- Safe: Low Power Devices Receive Only the Power They Need
- Safe and Reliable Power to WLAN Access Points
- Automatic Detection and Protection of Non–standard Ethernet Terminals
- Supports 10/100/1000Base-T applications
- Compact Design Fits Easily in WLAN Access Point Installations

Specifications

General	
No. of Ports	1
Pass Through Data Rates	10/100/1000 Mbps
Power over Ethernet Output	Pin Assignment and Polarity, Output 4/5 (+), 7/8 (–)
Output Power Voltage	55Vdc
User Port Power	30Watts
Input Power Requirements	AC Input Voltage: 100 to 240 Vac
AC Input Current	0.8A @ 100-240 Vac
AC Frequency	50 to 60 Hz
Dimensions	87.9 mm x 51.3 mm x 166 mm, 3.46 in. x 2.0 in. x 6.53 in
Weight	.771 lbs (350g)
Indicators	
System Indicator	AC Power (Green)
User Indicator	Channel Power (Green)
Connectors	Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	
Operating Ambient Temeprature	14° to 113°F -(-10 to 45°C)
Operating Humidity	Maximum 90%, Non-condensing
Storage Temperature	32° to 104°F (0° to 40°C)
Storage Humidity	Maximum 95%, Non-condensing
Operating Altitude	–1000 to 10,000 ft. (–304.8 to 3048 m)
Reliability	
MTBF	100,000 hrs. @25°C
Thermal Rating	27 BTU/Hr (@240VAC)
Warranty	1-year
Regulatory Compliance	IEEE 802.3at, IEEE 802.3af, RoHS Compliant, WEEE Compliant, CE
Electromagnetic Emission & Immunity	FCC Part 15, Class B, EN 55022 Class B (Emissions) EN 55024 (Immunity), VCCI, Safety Approvals: UL/cUL Per EN 60950-1, GS Mark Per EN 60950-1

SNCA-POE6 / SNCA-POE12

The SNCA-POE6 & POE12 offers a cost effective, fully IEEE 802.3af compliant solution to upgrade existing infrastructure with PoE, providing a maximum of 15.4 Watts of power through each port and ensuring safe operation of any standard PoE data terminal. It allows IP telephones, wireless LAN access points, security network cameras and IP terminals to receive power, along with data, over standard Ethernet cables, leaving network infrastructure completely unaltered.

Features and Benefits

- A cost-effective solution to upgrade existing infrastructure to PoE
- Safe & reliable power over existing Ethernet infrastructure
- Safe solution that Protects network infrastructure
- Scalable 6 & 12 port models for optimized installation
- Fully 802.3af standard compliant
- Cisco and legacy PoE support

Specifications

General	
No. of Ports	6 or 12
Pass Through Data Rates	10/100 Mbps
Power over Ethernet Output	Pin Assignment and Polarity, 4/5 (+), 7/8 (–)
Output Power Voltage	48Vdc
User Port Power	15.4Watts Max.
Aggregate Power	up to 200Watts
Input Power Requirements	AC Input Voltage: 90 to 264 Vac
AC Input Current	4A @ 110 Vac, 2A @ 240 Vac
AC Frequency	50 to 60 Hz
Dimensions	438 mm x 272 mm x 44 mm, 17.3 in. x 17.7 in. x 1.73 in
Weight	8.8 lbs (4 kg)
Indicators	
System Indicator	AC Power (Green)
User Indicator	Channel Power (Green)
Connectors	Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	
Operating Ambient Temeprature	32° to 104°F (0 to 40°C)
Operating Humidity	Maximum 90%, Non-condensing
Storage Temperature	–4° to 158°F (–20° to 70°C)
Storage Humidity	Maximum 95%, Non-condensing
Operating Altitude	–1000 to 10,000 ft. (–304.8 to 3048 m)
Reliability	
MTBF	100,000 hrs. @25°C
Thermal Rating	300 BTU/Hr (@240VAC)
Warranty	1-year
Regulatory Compliance	IEEE 802.3af (PoE), RoHS Compliant WEEE Compliant, CE
Electromagnetic Emission & Immunity	FCC Part 15, Class B with FTP cabling EN 55022 Class B (Emissions) EN 55024 (Immunity), VCCI Safety Approvals: UL/cUL Per EN 60950, GS Mark Per EN 60950

SNCA-PS12/1

A 12V DC 500mA in-line power supply that provides a single regulated DC output. The unit's mains and output leads are wire ended to allow easy connection to terminal blocks etc. ABS cased. These power supplies are intended for CCTV use and their size makes them suitable for mounting inside a camera housing, space permitting.

Features and Benefits

- 12V DC in-line PSU
- 1 x 500mA output
- Output leads are wire ended
- Suitable for mounting inside camera housings etc.
- ABS cased
- Dimensions are 65 x 115 x 45

Model	Description	Applicable/compatible camera models		Key features	Current (Amps)	Voltage (nominal)	Case	Approx. Weight	Approx. Dimensions W x H x D	Colour
SNCA-PS12/1	An indoor, in-line power supply with one output rated at 1 Amp, 12VDC	SSC-DC83 SSC-DC593 SSC-E473 SSC-E453 SSC-DC374 SSC-DC174 SSC-DC193P SSC-M383	SSC-M183 SSC-CD43VP SSC-CD73VP SNC-CS50P SNC-DF40P SNC-DF70P SNC-Z20P SNC-CS3P	Ideal for powering 12VDC cameras	1A	12V DC	ABS	0.8Kg	70 x 102 x 60	Black

SNCA-PS24/1

A 1 Amp 24V AC in-line power supply. Ideal for powering 24V AC CCTV cameras and camera housing heaters. The unit has a black plastic case that can be wall mounted or placed directly inside the camera housing (space permitting). It is pre-wired with a Euro mains plug and terminals for connecting to the output are provided inside the case.

Features and Benefits

- 24V AC in-line PSU
- 1 x 1A output
- Suitable for mounting inside camera housings etc.
- ABS cased
- Dimensions are 68 x 115 x 70mm

Model	Description	Applicable/compatible camera models		Key features	Current (Amps)	Supply Voltage (nominal)	Output Voltage (nominal)	Case	Approx. Weight	Approx. Dimensions W x H x D	Colour
SNCA-PS24/1	An indoor, in-line power supply with one output rated at 1 Amp, 24VAC, 50Hz	SSC-DC83 SSC-DC593 SSC-E473 SSC-E453 SSC-DC374 SSC-DC174 SSC-DC193P SSC-M383 SSC-M183	SSC-CD43VP SSC-CD73VP SNC-CS50P SNC-DF40P SNC-DF70P SNC-Z20P SNC-CS3P SNC-RX550P SNC-RZ25P	Ideal for powering 24VAC cameras	1A	240V AC 50Hz	24V AC	Plastic	1Kg	68 x 115 x 70	Black

SNCA-PS24/4

A 4 Amp 24V AC power supply with 1 x 4 Amp fused output. Ideal for powering 24V AC CCTV cameras and camera housing heaters. Steel cased.

SNCA-PS24/4E

A 4 Amp 24V AC power supply with 1 x 4 Amp fused outputs in an IP66 enclosure. Ideal for powering 24V AC CCTV cameras and camera housing heaters. Grey ABS cased.

Features and Benefits

- Comes with wall mounting kit
- Individually fused outputs

- Comes with wall mounting kit
- Weather proof enclosure
- Individually fused outputs

Model	Description	Applicable/compatible camera models		Key features	Current (Amps)	Supply Voltage (nominal)	Output Voltage (nominal)	Case	Approx. Weight	Approx. Dimensions W x H x D	Colour
SNCA-PS24/4	An indoor, in-line power supply with one output rated at 4 Amps, 24VAC, 50Hz	SNCA-HFIXED SNCA-HRZ25 SNCA-HRZ30 SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/EXT/R	SNCA-HRX550/INT SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/EXT/R SNCA-HRZ50/INT	Ideal for powering 24VAC cameras	1 x 4A	240V AC 50Hz	24V AC	Metal	2.05Kg	118 x 200 x 70mm	White
SNCA-PS24/4E	An external, in-line power supply with one output rated at 4 Amps, 24VAC, 50Hz	SNCA-HFIXED SNCA-HRZ25 SNCA-HRZ30 SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/EXT/R	SNCA-HRX550/INT SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/EXT/R SNCA-HRZ50/INT	Ideal for powering 24V AC housings and the cameras	1 x 4A	240V AC 50Hz	24V AC	Grey ABS	2.13Kg	150 x 250 x 100	White

	Model	Description	Applicable/compatible camera models	Key features	Operating voltage	Approx. Weight	Approx. Dimensions	Colour
	SNCA-PSVTSML24	This camera power supply converts 230VAC to 24VAC to power the camera and fits perfectly inside the SNCA-HFIXSML/230 Housing.	SNCA-HFIXSML/230	Can be mounted in housing	230VAC, 50Hz			N/A
	SNCA-PSVTSTD24	The OHOVPS2B converts 230VAC to 24VAC and is designed to fit into the SNCA-HFIXSTD/230	SNCA-HFIXSTD/230	Can be mounted in housing	230VAC, 50Hz			N/A
	SNCA-POWER/PCB	Red network camera power PCB with 12vdc output for all outdoor model dome enclosures.		Controls the blower and heater				
	YS-W170P	Camera adaptor (DC power + video/sync)			240V			
	YS-W270A							
	YS-W270P	Camera adaptor (DC power + video/sync)			240V			

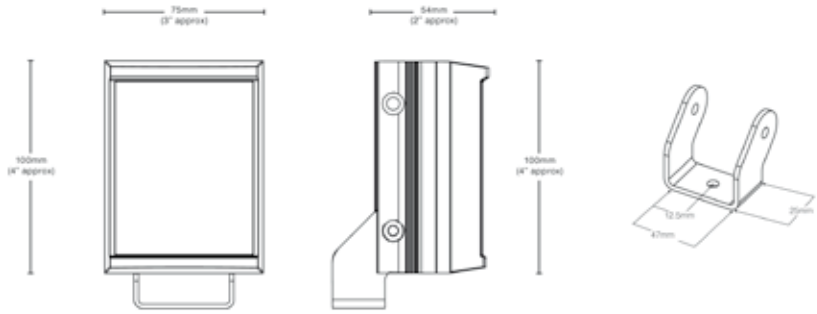
SNCA-IR20

The SNCA-IR20 Infra-Red illuminator is designed to provide dediated lighting for network cameras via a PoE (Power over Ethernet) enabled infrastructure. Installation is as simple as plugging in the PoE enabled network cable. With an in-built photocell plus internal Command and Control™ electronics the SNCA-IR20 is truly 'plug and play'.

Features and Benefits

- Operates from PoE
- In Built Photocell
- Command and Control™ technology
- 24/7 Illumination
- 20m range
- 30° spread

Dimensions



Model	Description	Key features	Operating Voltage	IP Rating	Colour
SNCA-IR20	IR light indoor 20m	20m range, 30° spread	PoE, 12-24V AC/DC	N/A	Black

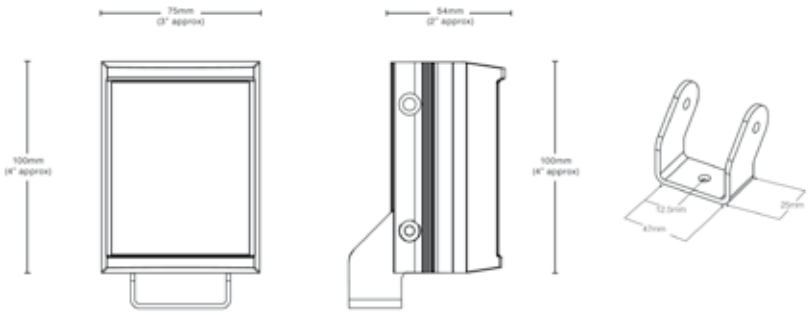
SNCA-IR20/OUTDR

The SNCA-IR20/OUTDR Infra-Red illuminator is designed to work in conjunction with B&W or Day and Night Cameras for short range applications, includes PSU with photcell.

Features and Benefits

- Surface Mount LED Technology
- Active LED Life Control
- Vandal Resistant
- Low Running Cost
- 5 Year Warranty
- 20m range
- 30° spread

Dimensions



Model	Description	Key features	Operating Voltage	IP Rating	Colour
SNCA-IR20/OUTDR	IR light outdoor 20m	20m range, 30° spread	110-230V AC	IP66	Black

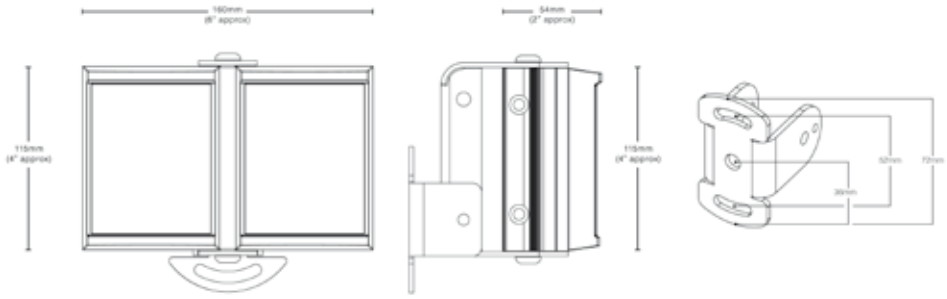
SNCA-IR40/OUTDR

The SNCA-IR40/OUTDR Infra-Red illuminator is designed to work in conjunction with B&W or Day and Night Cameras for short - medium distance applications. Adaptive Illumination™ allows for the onsite adjustment of beam patterns from 30-60°, includes PSU with photocell.

Features and Benefits

- Adaptive Illumination™
- Surface Mount LED Technology
- Active LED Life Control
- Vandal Resistant
- Low Running Cost
- 5 Year Warranty
- 40m range
- 30-60° spread

Dimensions



Model	Description	Key features	Operating Voltage	IP Rating	Colour
SNCA-IR40/OUTDR	IR light outdoor 40m	40m range	110-230V AC	IP66	Black

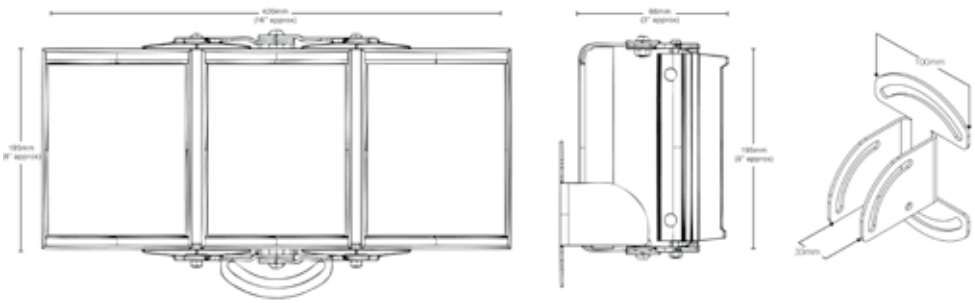
SNCA-IR80/OUTDR

The SNCA-IR80/OUTDR Infra-Red illuminator is designed specifically to work in conjunction with B&W or Day and Night Dome Cameras. Ultimate Adaptive Illumination™ allows for the onsite adjustment of beam patterns from 50-180° achieving 360° with only 2 units. Includes PSU with photocell.

Features and Benefits

- Adaptive Illumination™
- Surface Mount LED Technology
- Active LED Life Control
- Vandal Resistant
- Low Running Cost
- 5 Year Warranty
- max 100m range
- 50-180° spread

Dimensions



Model	Description	Key features	Operating Voltage	IP Rating	Colour
SNCA-IR80/OUTDR	IR light for PTZ		110-230V AC	IP66	Black

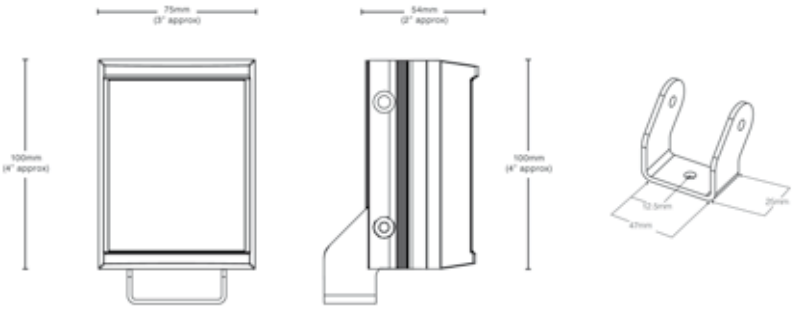
SNCA-WL15/OUTDR

The SNCA-WL15/OUTDR illuminator is designed to work in conjunction with colour CCTV systems providing a visible White-Light with accurate colour representation for the CCTV camera, includes PSU with photocell.

Features and Benefits

- Acurate Colour Representation
- Surface Mount LED Technology
- Active LED Life Control
- Vandal Resistant
- Low Running Cost
- 5 Year Warranty
- 20m range
- 30° spread

Dimensions



Model	Description	Key features	Operating Voltage	IP Rating	Colour
SNCA-WL15/OUTDR	White light outdoor 15m	15m range	110-230V AC	IP66	Silver

Network and Connectivity

	Model	Description	Applicable/compatible camera models	Key features	Operating Temperature	IP Rating
	SNCA-AN1	Wireless Outdoor LAN Antenna	SNCA-CFW1 SNCA-CFW5	50Ω Impedance Fixing pole included	-20°C to 60°C	IP66
	SNCA-CFW1	Wireless CF LAN card	SNC-CS50P (SNCA-CFADAPT req'd) SNC-RZ50P SNC-RX550P (SNCA-CFADAPT req'd) SNC-RZ25P SNC-P5	11Mb/s, 2.4GHz Powered by camera Built-in antenna External antenna connector Supports WEP/WPA/WPA2 IEEE-802.1 authentication Wireless diversity mode (TX/RX)	-20°C to 60°C	N/A
	SNCA-CFW5	Sim compact flash (Sony MESH compatible)	SNC-CS50P (SNCA-CFADAPT req'd) SNC-RZ50P SNC-RX550P (SNCA-CFADAPT req'd)	54Mb/s, 2.4GHz Powered by camera Built-in antenna External antenna connector Supports WEP/WPA/WPA2 IEEE-802.1 authentication Wireless diversity mode (TX)	-20°C to 60°C	N/A
	SNCA-CW5	Outdoor Antenna Kit	SNCA-CFW5			
	SNCA-CFADAPT	CF to PCMCIA adaptor	SNCA-CFW1 SNCA-CFW5	Powered by the connecting device	-20°C to 60°C	N/A

SCA-M30

The SCA-M30 is a ceiling microphone, designed to work with Sony Security Network Cameras for indoor use.

Features and Benefits

- Compatible with Sony Network Cameras
- Clearly picks up sound
- Strong structure against external vibration
- Easy installation
- Input sensitivity can be selected

Dimensions

Specifications

General	
Capsule type	Electret condenser
Directivity	Uni-directional
Frequency response	300 Hz to 10kHz
Sensitivity (at 1 kHz)	-40dB*1 ±3.5dB
Signal-to-noise ratio	60dB and more (IEC179 A weighted, 1KHz, 1Pa)
Power supply	Plug in Power DC 1.5 V - 9 V
Current consumption	0.5mA and less
Output connector	φ3.5mm mini-plug (3poles) Tip-Ring short connected
Connector cable length	Approx.300 cm
Dimensions	φ126 X 55 mm
Mass	Approx. 146g (Not included cable) Approx. 225g with Bracket (Not included cable)
Supplied accessories	Bracket(1), +BV 4 x 20(2), +K 2.6 x 20(3), Operating instruction(1), Warranty booklet(1)
Applicable/compatible models	
	SNC-DH180, SNC-RS84P, SNC-DH140, SNC-RS84N, SNC-RH164, SNC-CH140, SNC-RS44N, SNC-RS44P, SNC-RS46N, SNC-RS46P, SNC-RH124

SCA-S30

The SCA-S30 is a highly durable speaker for outdoor environments. It is designed to work with Sony Network cameras and can generate loud sound by it's high efficiency digital amplifier.

Features and Benefits

- Built-in high efficiency digital amplifier
- Seamless integration with Sony Network Cameras.
- Reliable and durable in outdoor environments.
- Easy Installation (wall/pole fixing)

Dimensions

Specifications

General	
Frequency response	100 Hz to 15,000Hz (at 5W output power)
Reference input level (at 1 kHz)	-10dBu (0dBu = 0.775Vrms)
Output	30W and more (AC24V, 1kHz -10dBu input)
Maximum Output	35W and more (AC24V, 1kHz input)
Input impedance	20kohm +/-20% (at 1kHz)
Distortion	Less than 1% (AC24V, 30W output at 1kHz)
Signal to Noise ratio	80dB and more (IEC179A weighted, 30W,1kHz)
Power supply	AC24 V +/- 10% 50Hz/60Hz
Power consumption	8W (AC24V, 1/8 output power)
Dimensions	φ150 x 245mm (included mount frame)
Mass	Approx. 2.4kg (included mount frame)
Operating temperature	0°C to 50°C
Storage temperature	-20°C to +60°C
Supplied accessories	Wire rope (1), +M4 x 16(1), Operating instruction(1), Warranty booklet(1)
Applicable/compatible models	
	SNC-DH180, SNC-DH140, SNC-RS84P, SNC-RS84N, SNC-RH164, SNC-CH140, SNC-RS44N, SNC-RS44P, SNC-RS46N, SNC-RS46P, SNC-RH124

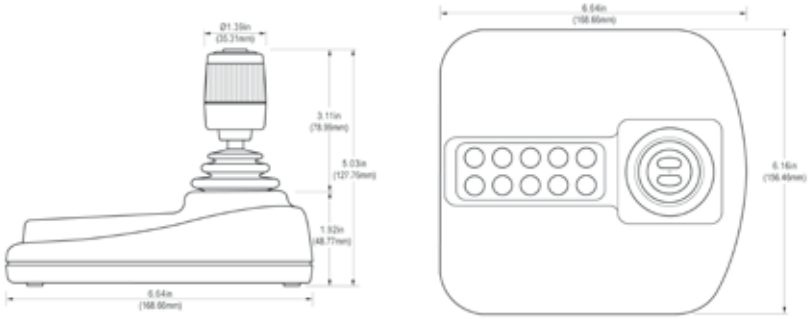
SNCA-JOYSTICK1

The IP Desktop USB joystick provides security professionals with intuitive P/T/Z camera control for network video surveillance applications. Featuring a three axis Hall effect joystick, twelve programmable pushbutton switches and USB interface, the IP Desktop integrates seamlessly with any software application recognizing joystick inputs via Microsoft's DirectX.

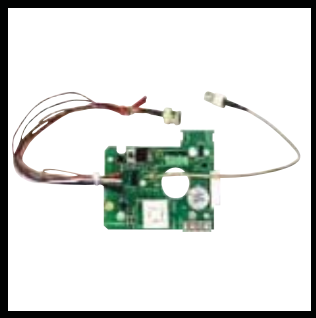
Features and Benefits

- Three axes joystick for P/T/Z control
- Programmable pushbuttons
- USB 1.1 HID compliant "game controller" device
- Easy to use and operate

Dimensions



Model	Centering	Housing	Breakout force	Operation force	Maximum force	Operating temperature	Life cycles	Supply voltage (USB bus)	Supply current (USB bus)	Approx. Dimensions W x L x H	Colour
HFX Series I, Model 1400 Option 5	Single spring, omnidirectional	High impact, glass-filled nylon	.109Nm	.151Nm	.169Nm	-40°C to +85°C	10,000,000	Vdd = 5V ± .5V	32mA	15.6 x 16.9 x 12.6 cm (6.15" x 6.65" x 4.97")	N/A



SNCA-HEATER

The SNCA-HEATER is a 24Vac Cold Weather Kit for an additional heater and blower. It is designed for outdoor dome housings in extremely cold weather. Extends the low temperature operating conditions by approx. 15°C

SNCA-CONNECTOR/PCB YT-HU75

Green control PCB board.

Model	Description	Key features	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HEATER	Heater blower kit		Extends lower operating temperature of housing/ device by 15°C	24V, 25W	SNCA-HRX550/EXT SNCA-HRX550EXT/W	N/A	N/A	N/A
SNCA-CONNECTOR/ PCB	PC board	Controls the blower and heater For outdoor models only Replacement part			SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/EXT/R SNCA-HRZ25 SNCA-HRZ30			
YT-HU75	Heater unit							

SNCA-TINTED

Tinted Replacement capsule for SNCA-HRZ25 & SNCA-HRZ30

SNCA-TINTED/2

Tinted replacement capsule for Sony 7" dome housings.

Features and Benefits

SNCA-TINTED

- Acrylic construction

SNCA-TINTED/2

- Polycarbonate construction

Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-TINTED	Tinted dome	N/A	N/A	N/A	SNCA-HRZ25 SNCA-HRZ30	N/A	Tinted	8" (20.32cm) Diameter
SNCA-TINTED/2	Tinted dome, new 7" version	N/A	N/A	N/A	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R	N/A	Tinted	7" (17.78cm) Diameter

SNCA-CLEAR

Clear replacement capsule for SNCA-HRZ25 & SNCA-HRZ30

SNCA-CLEAR/2

Clear replacement capsule for Sony 7" dome housings.

Features and Benefits

SNCA-CLEAR

- Acrylic construction

SNCA-CLEAR/2

- Polycarbonate construction

Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-CLEAR	Clear dome	N/A	N/A	N/A	SNCA-HRZ25 SNCA-HRZ30	N/A	Clear	8" (20.32cm) Diameter
SNCA-CLEAR/2	Clear dome, new 7" version	N/A	N/A	N/A	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R	N/A	Clear	7" (17.78cm) Diameter

Compatibility Tables

Guide on which camera's fit into each housing and which housings fit with which brackets.

Cameras, Housings & Bracket Table

		IP FIXED CAMERAS										IP MINI-DOME CAMERAS										IP PTZ CAMERAS												
		SNC-P1	SNC-CS10	SNC-CS11	SNC-CS20	SNC-CS50	SNC-CM120	SNC-CH140	SNC-CH180	SNC-CH210	SNC-CH240	SNC-DS10	SNC-DS60	SNC-DF50	SNC-DF80	SNC-DF85	SNC-DM110	SNC-DM160	SNC-DH140	SNC-DH180	SNC-DH240	SNC-P5	SNC-RZ25	SNC-RZ50	SNC-RX530	SNC-RX550	SNC-RX570	SNC-RH124	SNC-RS44	SNC-RS46	SNC-RH164	SNC-RS84	SNC-RS86
In-Ceiling Mount Bracket	**Page No**	24	25	26	27	29	28	30	31	33	32	34	37	36	39	40	35	38	41	42	43	44	45	46	47	48	49	50	52	53	51	54	55
YT-ICB45	89											•	•	•	•	•	•	•		•													
YT-ICB124	89																											•	•	•			
YT-ICB140	89																		•														
YT-ICB550/T	89																								•	•	•						
YT-ICB550/C	89																								•	•	•						
SNCA-ICPTZ/C	82																					•	•	•	•	•	•	•	•	•			
SNCA-ICPTZ/T	82																					•	•	•	•	•	•	•	•	•			
SNCA-WMFIX10PC	86	•	•	•	•	•	•	•		•	•											•											
SNCA-WMMD2	87														•	•																	
SNCA-WMMD3	88												•					•		•													
SNCA-WMMD4	88											•		•			•		•		•							•	•	•			
Outdoor Housing																																	
SNCA-HP5	82																					•											
SNCA-HRZ25	77																						•										
SNCA-HRZ50/EXT	78																							•									
SNCA-HRZ50/EXT/R	78																							•									
SNCA-HRZ50/EXT/W	79																							•									
SNCA-HRZ50/INT	79																							•									
SNCA-HRX550/EXT	75																						•		•	•	•	•	•	•			
SNCA-RX550EXT12V	77																						•		•	•	•	•	•	•			
SNCA-HRX550EXT/R	76																						•		•	•	•	•	•	•			
SNCA-HRX550EXT/W	76																						•		•	•	•						
SNCA-HRX550/INT	75																						•		•	•	•	•	•	•			
SNCA-HFIXSTD/230	81		•	•																													
SNCA-HFIXSTD/24	81		•	•																													
SNCA-HFIXSML/24	80		•	•																													
SNCA-HFIXSML/230	80		•	•																													
Power Supplies & Misc																																	
SNCA-PS12/1	92		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•											
SNCA-PS24/1	92		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•														
SNCA-PS24/4	93		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•	•	•	•	•	•	•	•	•
SNCA-PS24/4E	93		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•	•	•	•	•	•	•	•	•
SNCA-POE1	90			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•													
SNCA-HPOE1	91			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								•	•	•			
SNCA-POE6	91			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•													
SNCA-POE12	91			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•													
SNCA-CFW1	96					•																	•	•		•							
SNCA-CFW5	96					•		•																•	•	•	•	•	•	•	•	•	•
SNCA-CFADAPT	96					•																			•	•	•	•	•	•			
YT-HU75	98														•	•																	

Housing & accessory table

		CAMERA HOUSINGS												PTZ CAMERAS			BRACKETS				POWER	AUDIO
		SNCA-HRZ25	SNCA-HRZ50/EXT	SNCA-HRZ50/EXT/R	SNCA-HRZ50/EXT/W	SNCA-HRZ50/INT	SNCA-HRX550/EXT	SNCA-RX550EXT12V	SNCA-HRX550EXT/R	SNCA-HRX550EXT/W	SNCA-HRX550/INT	SNCA-HFIXSTD/230	SNCA-HFIXSTD/24	SNC-RH164	SNC-RS84	SNC-RS86	SNCA-PM3	SNCA-CA2	SNCA-WM20G	SNCA-WM20FC	SNCA-POWERBOX	SCA-S30
Mount Bracket	**Page No**	77	78	78	79	79	75	77	76	76	75	81	81	51	54	55	86	86	84	84	90	97
SNCA-CEILING (must be used with POLE30)	83	•	•	•	•	•	•	•	•	•	•			•	•	•						
SNCA-POLE30	83	•	•	•	•	•	•	•	•	•	•			•	•	•						
SNCA-WM20G	84	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•			•	
SNCA-WM20FC	84	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•			•	
SNCA-WM30G	85	•	•	•	•	•	•	•	•	•	•											
SNCA-WM40	85	•	•	•	•	•	•	•	•	•	•						•	•			•	
SNCA-CAFIX1	86											•	•									
SNCA-PMFIX1	86											•	•									
SNCA-WMMD1	87																•	•			•	
SNCA-WMMD2	87																•	•			•	
SNCA-WMMD3	88																•	•			•	
SNCA-WMMD4	88										•	•			•		•				•	
YT-LD124C	89													•	•	•						
YT-LD124S	89													•	•	•						
Power Supply																						
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